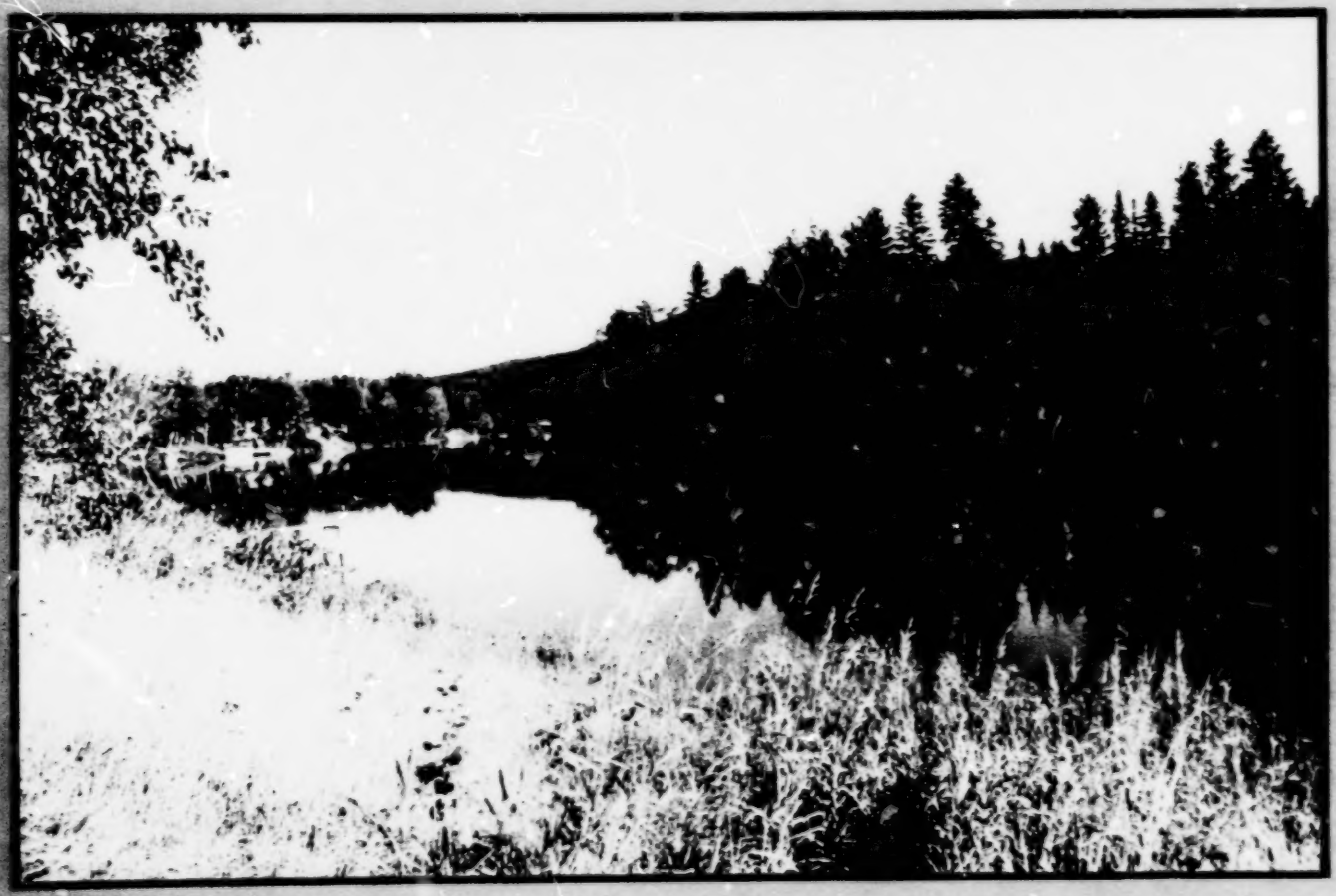
Environment Canada Environnement Canada

Canada

FIELD QUALITY CONTROL/QUALITY ASSURANCE PROGRAM RESULTS OF 1984/85 SEQUENTIAL TRIPLICATE SAMPLING

IWD-AR-WQB-85-78



INLAND WATERS DIRECTORATE
ATLANTIC REGION
WATER QUALITY BRANCH
MONCTON, NEW BRUNSWICK

FIELD QUALITY CONTROL/QUALITY ASSURANCE PROGRAM
RESULTS OF 1984/1985 SEQUENTIAL TRIPLICATE SAMPLING

IWD-AR-WQB-85-78

INLAND WATERS DIRECTORATE

ENVIRONMENT CANADA

Richard Arseneault

Geoffery Howell

Water Quality Branch

Atlantic Region

Moncton, New Brunswick

March 31, 1985

A copy will be made available in French upon request.

TABLE OF CONTENTS

	PAGE
Abstract	i
Résumé	ii
Introduction	1
Methods	4
Results and discussion	5
Summary	10
Future Actions	11
References	12
Acknowledgements	13
List of Tables	14
Appendix 1	17

ABSTRACT

This preliminary report presents the results of sequential triplicate samples collected in five WQB-AR projects during 1984/85. Overall the parameters considered had good triplicate agreement, with 93% of the total triplicate tests complying with the established acceptance criteria. Most quality control/assurance problems are associated with the measurement of DOC, total phosphorus, nitrate-nitrite and turbidity. In addition those projects which employ non-WQB sample collectors appear to have the greatest number of unacceptable triplicates. This may be the result of less rigorous sampling protocol by lay collectors. A number of specific problem areas have been identified and recommendations have been made with the intent of improving the present QC/QA program.

RESUME

Ce rapport préliminaire présente les résultats des échantillonnages triples (dans le temps) effectués dans le cadre de cinq projets de la Direction de la qualité des eaux (DQE), région de l'Atlantique, durant 1984-1985. En général, les paramètres mesurés en triplicata furent en bon accord puisque 93% de toutes ces analyses effectuées se conformèrent avec les critères d'acceptation établis. Ces données indiquent que la plupart des problèmes de contrôle/assurance de la qualité sont associés à des mesures de carbone organique dissous, phosphore total, nitrite-nitrate et turbidité. De plus, les projets qui emploient des échantillonneurs autres que ceux de la DQE semblent présenter un plus grand nombre d'échantillons triples faiblement reproduits. Ceci est peut-être le résultat d'une procédure d'échantillonnage moins rigoureuse suivie par ces échantillonneurs. Un certain nombre de secteurs présentant des problèmes spécifiques ont été identifiés, et des recommandations ont été faites dans l'espoir d'améliorer le présent programme de contrôle/assurance de la qualité.

INTRODUCTION

The Water Quality Branch, Atlantic Region, on reviewing historical data sets, perceived an urgent need for improvement of its field quality assurance (QA) and quality control (QC) programs and procedures. The Analytical Services Division (ASD) of WQB has numerous quality control/assurance procedures in place, many of which result from participation in national programs such as LRTAP and Toxic Chemicals which require stringent quality assurance procedures. Thus at present, the measurement uncertainties associated with the field sampling and measurement steps of the water quality data collection process outweigh the uncertainties associated with the analytical laboratory aspects. The first step towards the establishment of a comprehensive program was the preparation of an internal report on field procedures and techniques (WQB-AR, 1984). This report was intended to be more specific than the existing Water Quality Branch manual (Sampling for Water Quality, 1983), and as such reflects the needs of the WQB-AR. In addition, this WQB-AR report outlines the field QC/QA measures that were implemented in all regional water quality monitoring programs in April 1984, as the preliminary phase of the QC/QA program.

A QA program is an integral part of all sampling programs and must be directed towards all aspects of monitoring including: network design, station selection, sampling, analysis, data management and interaction with management. More precisely,

it is a system of management and operational activities designed to ensure the performance of the QC programs. A QC program is a system of routine checks and procedures, carried out by field, laboratory and data management personnel as part of the normal operation to ensure that the data collected meet prescribed performance standards. The objective of quality control/assurance is to provide data which are meaningful, representative, complete, precise, accurate and comparable.

The major component of the 1984 WQB-AR field QC/QA program was the implementation of triplicate sampling for at least 15% of all samples collected. This procedure was implemented on a project basis and thus the triplicates include samples for the suite of laboratory parameters generally measured in each individual project. The experimental design of this triplicate sampling procedure was such that results can be analyzed by region, project, station, collectors and season and thus may serve to elucidate serious quality control/assurance problems. Another major aspect of the field QC/QA program was that sample preservation and preservative blanks were to be prepared at the end of the sampling day, rather than on site. As it is often necessary to perform on site preservation in the back of open vehicles, it was felt that this approach would help to minimize site specific sample contamination. Similarly, in programs requiring field filtration, the filtering was performed at the end of the day.

This preliminary report presents the data of those triplicate samples which have been analyzed to date, and provides a short discussion on the results. As the data base expands, more effort will be expended in order to produce an in-depth report on the QC/QA results. Intensive examination of a large triplicate data set may discern project specific areas of concern and will facilitate a thorough evaluation of our present QC/QA program.

METHODS

Standard WQB laboratory analytical methodologies were followed, as discussed in the Analytical Methods Manual (WQB, 1979). Standard field procedures, as described in the Manual Sampling for Water Quality (WQB, 1983) and more specifically in the QC/QA WQB-AR internal report (1984), were followed. A list of parameters studied is given in Table 1.

In order to ensure equal weighting within projects, stations replicated were selected from a predetermined rotational schedule. This was done to overcome the possibility of field collector bias towards easily accessible stations. Triplicates were collected on a sequential basis after all bottles had been properly rinsed with sample water.

In the WQB Regional Overview Network, WRB hydrometric technicians collect water samples from selected rivers. Prior to April 1984, they were also preserving these samples, when necessary, but for various reasons, contamination of both blanks and samples was often observed. As a result of this, it was decided that, starting in April 1984, the samples collected by WRB hydrometric technicians would be preserved only when they reached the WQB-AR laboratory in Moncton.

RESULTS AND DISCUSSION

The sequential triplicate sampling program implemented in 1984 was designed to evaluate whether the water sampling performed in the various WQB monitoring programs is representative. Also, in the case of badly replicated parameters, it may aid to discern contamination and/or analytical problems. In addition, the triplicate results may reveal problems associated with water quality data management. Thus, the triplicate sampling covers the entire quality assurance picture by providing information on the combination of field, laboratory and data management components.

Five of our projects are considered in this report: International Saint John River, Nova Scotia LRTAP Lakes, Newfoundland LRTAP Lakes, LRTAP Overview Rivers and Kejimkujik Calibrated Basin Study. Table 2 gives the percentage of sequential triplicate samples collected per project and the triplicate data for these five programs is presented in Appendix I. The two programs which use non-WQB sample collectors have a higher percentage of triplicates in order to provide a more rigorous evaluation of the sampling program.

Generally, samples are preserved and preservative blanks are prepared for metals and phosphorus samples. However, no preservation blanks were prepared in the LRTAP Overview as these samples are not field preserved. Commencing on April 1, 1985, blanks will

be prepared along with the preservation of these samples at the WQB laboratory in Moncton. No blank contamination problems were observed, except for two total phosphorus blanks in the Newfoundland LRTAP Lakes program and a few metals blanks with low levels of iron and aluminum detected elsewhere. The LRTAP Lakes monitoring program is the only project discussed in this report which does not use preservative dispensers. This would suggest that either the preservative containers and/or the Eppendorf pipettes employed contaminated the phosphorus preservative. Blank results will be presented and discussed in greater depth in next year's report when a much larger data base is available.

In order to evaluate the triplicate sampling results, it is essential to first define the degree of reproducibility between triplicate samples which is unacceptable. It is felt that a variation greater than or equal to 10% between triplicates for any parameter is of concern. However this 10% value can only be used as a rough guide, as near the analytical detection limit variations up to 50% are not uncommon. In addition, it is necessary to consider the relative importance of any given parameter within a specific project. Thus, in order to properly assess the results of triplicate samples, it is necessary to consider not only the degree of reproducibility, but also the absolute concentrations and the significance of the parameter in question.

The results of the triplicate sampling presented in Appendix I, indicate excellent agreement within triplicate samples for most of the parameters measured. In fact, of the 2992 triplicate tests considered in this report, only 201 or 6.7% have inadequate triplicate agreement based on the criteria defined herein. This would suggest that for the majority of parameters considered, the field sampling protocol, analytical and data management procedures presently in place are providing high quality water chemistry data.

As a major objective of the sequential triplicate sampling program is to identify possible shortcomings in WQB water quality data, the following discussion will focus on those parameters and programs which have the largest number of inadequately reproduced triplicates. If these results can identify areas of concern and offer possible solutions, then the triplicate sampling program will have a positive effect on the overall quality of our water chemistry data.

A cursory data screening shows that dissolved organic carbon and total nitrogen are the parameters that most frequently have inconsistent values within triplicate samples. Nitrite-nitrate, total phosphorus and humic acid are also parameters which have inconsistent triplicates. Dissolved organic carbon is the most poorly replicated parameter with four out of the five programs

showing some problems. Other parameters that have shown some unacceptable reproducibility were turbidity, nonfilterable residue and dissolved aluminum for the International Saint John River program and extractable aluminum for the Nova Scotia and Newfoundland LRTAP Lakes programs. For the Saint John River International, all the parameters which had poor triplicate agreement were associated with periods of high sediment loading. This suggests that these problems are induced by inadequate sampling of inhomogeneous water masses. It is hoped that as the data set increases, some insight will be gained into the suitability of grab sampling during the extremes of the hydrograph.

Turbidity, sulphate (MTB), potassium and extractable aluminum are also parameters that were poorly replicated for some samples (less than 10% of the 57 triplicates) in the LRTAP Overview program. In the case of the Kejimkujik Calibrated Basin Study, a significant number of samples had unacceptable triplicates for Gran Alkalinity, apparent water colour, sulphate (IC) and to a lesser extent pH. The triplicates with the poorly replicated pH values also exhibited poor agreement between sulphate concentrations and nitrate + nitrite concentration. This would suggest that these samples are contaminated by both nitric and sulphuric acids, probably due to acid carry-over from the chromic-nitric acid bottle washing procedure. Furthermore, as poor triplicate pH agreement was obvious only in this program, it can be assumed that the contracted

sample collector may occasionally fail to rinse the sample bottles prior to collection. During mid-summer, the washing procedure for major ion bottles used in all the WQB-AR LRTAP programs was changed to an alkaline solution in place of the acids. The September 3/84 triplicate indicates one sample with an elevated pH, presumably as a result in alkali carry-over of an inadequately rinsed bottle.

If we further consider the LRTAP Overview program, which presently has the largest triplicate data base (57 triplicates) and is the other project which uses non-WQB water sample collectors, it is significant that many of the parameters were well replicated. However the list of poorly replicated parameters is greater for this program and the extent to which some parameters are affected can be extreme. Poor reproducability was observed for 25% and 20% of the humic acid and nitrate-nitrite samples respectively. In addition, dissolved organic carbon, total phosphorus and total nitrogen triplicate samples were unacceptable for 14%, 12% and 12% of all cases respectively. It is interesting to note that generally two out of the three samples of a given triplicate had values nearly identical while the third was significantly different. As the LRTAP Overview program is comprised of only river systems, it is probable that many of the unacceptable triplicates observed is the result of inadequate sampling of heterogeneous water bodies.

SUMMARY

The results to date have indicated that overall there is good agreement between triplicate samples. However, until the data set is sufficiently large, it will be impossible to ascribe statistical significance to any of the observations made herein.

These results indicate that the degree of agreement within triplicates is dependent on several factors such as sampling protocol, analytical methodology and data management. On a project basis, the greatest problems were observed for the two programs which employ non-WQB sample collectors. This emphasizes the importance of having a higher rate of triplicate sampling for these two projects and illustrates the need for improved training with regard to WQB sampling protocols. In addition, disproportionate triplicates for those parameters dependent on suspended solid loads indicate the inadequacy of grab sampling of unmixed river waters.

Although the data base is presently limited, these results have already elucidated some problem areas. As the program evolves and the data base expands, it will not only aid to improve the water quality data but will also serve to define the degree of confidence for any given parameter.

FUTURE ACTIONS

1. Triplicate sampling should be continued in all programs at the present rate. All other field QC/QA procedures presently employed should be continued.

2. Bottle washing procedures should be reviewed in order to characterize the effects of acid and/or alkali carry-over on concentrations of specific parameters.

3. Non WQB sample collectors should be thoroughly acquainted with prescribed WQB-AR sampling protocols.

4. Effort should be made to ensure that triplicate samples are not given special treatment during the analytical and validation procedures.

5. Improved preservative containers and dispensers should be obtained for the Newfoundland LRTAP lakes monitoring program.

REFERENCES

Arseneault, R., G. Howell and D. Lockerbie, 1984. Water Quality Branch, Atlantic Region Field Quality Control/Quality Assurance Program. Draft Report. Inland Waters Directorate. Water Quality Branch, Atlantic Region, 26 p.

WQB 1979. Analytical Methods Manual. Water Quality Branch, Inland Waters Directorate, Ottawa.

WQB 1983. Sampling for Water Quality. Water Quality Branch, Inland Waters Directorate, Ottawa, 55 p.

ACKNOWLEDGEMENTS

The adoption of the new QC/QA procedures has increased the work load of both the field and laboratory personnel. Their cooperation and assistance has been greatly appreciated. The authors would like to thank Dr. T. Pollock for his input and D. Bingham and L. Wong for their computer data management assistance. We extend our appreciation to L. Boulter who typed this manuscript.

LIST OF TABLES

Table 1. List of Parameters and Parameter Codes

Table 2. Percentage of Sequential Triplicate Samples Collected Per Project

TABLE 1 . LIST OF PARAMETERS AND PARAMETER CODES

PARAMETER CODE	PARAMETER
10301L	LABORATORY PH
02041L	LAB.SPECIFIC CONDUCTANCE, US/CM
02011L	WATER COLOUR, HAZEN UNITS
02073L	TURBIDITY, JTU
10101L	TOTAL ALKALINITY, MG/L
10110L	GRAN ALKALINITY, MG/L
20110L	DISSOLVED CALCIUM, MG/L
12107L	DISSOLVED MAGNESIUM, MG/L
19103L	DISSOLVED POTASSIUM, MG/L
11103L	DISSOLVED SODIUM, MG/L
16304L	DISSOLVED SULPHATE(MTB), MG/L
16309L	DISSOLVED SULPHATE(IC), MG/L
17205L	DISSOLVED CHLORIDE, MG/L
48302P OR L	EXTRACTABLE CADMIUM, MG/L
82302P OR L	EXTRACTABLE LEAD, MG/L
29305P OR L	EXTRACTABLE COPPER, MG/L
30309P OR L	EXTRACTABLE ZINC, MG/L
26304P OR L	EXTRACTABLE IRON, MG/L
13305P OR L	EXTRACTABLE ALUMINUM, MG/L
25304P OR L	EXTRACTABLE MANGANESE, MG/L
80314P OR L	EXTRACTABLE MERCURY, MG/L
06107L	DISSOLVED ORGANIC CARBON, MG/L
13106L	DISSOLVED ALUMINUM, MG/L
15104L	TOTAL DISSOLVED PHOSPHORUS, MG/L
10401L	TOTAL SUSPENDED SOLIDS, MG/L
06581L	HUMIC ACID, MG/L
07110L	NITROGEN DISSOLVED NO3-NO2, MG/L
07601L	TOTAL NITROGEN, MG/L
15413P OR L	TOTAL PHOSPHORUS, MG/L
09106L	FLUORIDE, MG/L
14102L	SILICA, MG/L

TABLE 2. PERCENTAGE OF SEQUENTIAL TRIPLICATE SAMPLES COLLECTED PER PROJECT

PROJECT	APPROX. # OF SAMPLES	# OF TRIPLICATES	APPROX. % OF TRIPLICATES
INTERNATIONAL SAINT JOHN RIVER	80	13*	16
NEWFOUNDLAND LRTAP	62	10	16
NOVA SCOTIA LRTAP	88	16	18
KEJIMKUJIK CALIBRATED BASIN	150	33	22
LRTAP OVERVIEW	260	57	22

* TWO DUPLICATES INCLUDED

Appendix 1

Triplicate Sampling Results

TABLE 1. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
ON THE INTERNATIONAL SAINT JOHN RIVER

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.	NA DISS.
00NB01AD0013	16-MAY-84	6.7	61	7.9	19.4	45	9.4	0.94	0.40	1.3
00NB01AD0013	16-MAY-84	6.7	61	3.0	19.4	30	9.5	0.89	0.40	1.2
00NB01AD0013	16-MAY-84	6.8	62	1.2	19.6	30	9.5	0.84	0.40	1.2
00NB01AD0017	16-MAY-84	6.7	39	1.6	11.1	55	5.8	0.74	0.30	0.9
00NB01AD0017	16-MAY-84	6.7	39	0.7	11.3	50	5.9	0.74	0.30	0.9
00NB01AD0017	16-MAY-84	6.7	39	0.7	11.1	45	5.8	0.74	0.30	0.9
00NB01AD0016	17-MAY-84	7.2	122	1.7	50.0	20	19.0	2.30	0.50	2.1
00NB01AD0016	17-MAY-84	7.2	122	0.6	50.3	10	19.0	2.30	0.50	2.1
00NB01AD0016	17-MAY-84	7.1	122	1.5	49.0	15	19.0	2.30	0.40	2.1
00NB01AF0002	26-JUN-84	7.3	81	0.7	29.5	35	7.0	1.50	0.40	2.0
00NB01AF0002	26-JUN-84	7.0	81	0.7	26.6	40	12.0	1.60	0.35	1.7
00NB01AF0002	26-JUN-84	7.2	81	0.6	27.7	30	12.0	1.60	0.40	2.0
00NB01AF0021	27-JUN-84	7.5	81	0.6	33.4	5	13.0	1.80	0.30	1.3
00NB01AF0021	27-JUN-84	7.5	81	0.4	33.7	5	12.0	1.80	0.20	1.1
00NB01AF0021	27-JUN-84	7.5	81	0.6	33.7	5	7.4	1.80	0.25	1.3
00NB01AF0023	27-JUN-84	7.2	67	8.4	26.0	90	12.0	1.00	0.30	1.1
00NB01AF0023	27-JUN-84	7.2	67	27.0	26.0		12.0	0.94	0.30	1.1
00NB01AF0023	27-JUN-84	7.2	68	28.0	26.1		12.0	0.94	0.30	1.0
00NB01AG0003	14-AUG-84	8.0	312	0.7	116.0	10	54.0	5.00	0.70	3.1
00NB01AG0003	14-AUG-84	8.0	311	0.7	115.0	15	54.0	5.00	0.70	3.2
00NB01AG0003	14-AUG-84	8.0	310	0.6	116.0	15	54.0	5.00	0.75	3.2
01NB01AF0005	14-AUG-84	7.4	97	1.1	34.7	25	14.0	2.00	0.45	2.2
01NB01AF0005	14-AUG-84	7.4	97	1.2	33.8	25	14.0	2.00	0.40	2.2
01NB01AF0005	14-AUG-84	7.4	97	1.5	33.7	25	14.0	2.00	0.45	2.2
01NB01AG0001	14-AUG-84	7.8	141	1.1	51.5	20	21.0	3.00	0.60	2.6
01NB01AG0001	14-AUG-84	7.7	139	1.2	50.3	30	21.0	3.00	0.60	2.6
01NB01AG0001	14-AUG-84	7.5	141	0.7	50.2	20	21.0	3.00	0.65	2.7
00NB01AJ0012	29-OCT-84	8.4	353	0.4	144.5	5	61.0	5.30	1.30	4.4
00NB01AJ0012	29-OCT-84	8.3	353	0.2	144.7	5	62.0	5.30	1.30	4.4
00NB01AJ0012	29-OCT-84	8.3	353	0.4	143.0	5	61.0	5.30	1.33	4.4
00NB01AJ0029	29-OCT-84	8.0	227	0.3	92.3	5	38.0	3.40	0.75	4.3
00NB01AJ0029	29-OCT-84	8.1	227	0.4	93.5	5	38.0	3.40	0.77	4.2
00NB01AJ0029	29-OCT-84	7.9	228	0.3	93.1	5	38.0	3.40	0.75	4.2
00NB01AD0017	30-OCT-84	7.5	69	0.5	23.8	35	10.0	1.40	0.45	1.4
00NB01AD0017	30-OCT-84									
00NB01AD0019	30-OCT-84	7.7	105	0.9	43.1	5	16.0	2.10	0.39	2.1
00NB01AD0019	30-OCT-84	7.7	106	0.9	43.5	5	16.0	2.10	0.39	2.1

TABLE 1. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
ON THE INTERNATIONAL SAINT JOHN RIVER

	SDATE	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.	PB EXTRACT.	AL EXTRACT.	FE EXTRACT.
00NB01AD0013	16-MAY-84	1.5		4.8	0.009	0.002	0.010	0.001	0.002	0.095	0.13
00NB01AD0013	16-MAY-84	1.5	4.6	4.6	0.010	0.002	0.010	0.001	0.002	0.120	0.16
00NB01AD0013	16-MAY-84	1.5	4.8		0.014	0.002	0.010	0.001	0.002	0.110	0.15
00NB01AD0017	16-MAY-84	0.8		3.9	0.008	0.002	0.010	0.001	0.002	0.130	0.14
00NB01AD0017	16-MAY-84	0.8		3.9	0.007	0.002	0.010	0.001	0.002	0.150	0.15
00NB01AD0017	16-MAY-84	0.8		4.1	0.008	0.002	0.010	0.001	0.002	0.120	0.13
00NB01AD0016	17-MAY-84	2.1			0.008	0.002	0.010	0.001	0.002	0.040	0.07
00NB01AD0016	17-MAY-84	2.2			0.009	0.002	0.010	0.001	0.002	0.040	0.08
00NB01AD0016	17-MAY-84	2.1	6.0		0.009	0.002	0.010	0.001	0.002	0.040	0.07
00NB01AF0002	26-JUN-84	2.1	6.2		0.015	0.002	0.010	0.001	0.002	0.050	0.14
00NB01AF0002	26-JUN-84	2.1	7.2		0.012	0.002	0.010	0.001	0.002	0.050	0.14
00NB01AF0002	26-JUN-84	2.1	6.2		0.014	0.002	0.010	0.001	0.002	0.050	0.14
00NB01AF0021	27-JUN-84	0.6	4.0		0.006	0.002	0.010	0.001	0.002	0.030	0.07
00NB01AF0021	27-JUN-84	0.6	4.2		0.022	0.002	0.010	0.001	0.006	0.020	0.07
00NB01AF0021	27-JUN-84	0.6	4.2		0.009	0.002	0.010	0.001	0.002	0.020	0.06
00NB01AF0023	27-JUN-84	1.3	4.2		4.000	0.002	0.010	0.001	0.002	0.100	0.96
00NB01AF0023	27-JUN-84	1.1	4.0		0.052	0.002	0.010	0.001	0.002	0.090	0.97
00NB01AF0023	27-JUN-84	1.1	3.9		0.070	0.002	0.010	0.001	0.002	0.100	0.93
00NB01AG0003	14-AUG-84	7.2	18.5		0.011	0.002	0.012	0.001	0.002	0.036	0.06
00NB01AG0003	14-AUG-84	7.2	18.7		0.012	0.002	0.010	0.001	0.002	0.033	0.05
00NB01AG0003	14-AUG-84	7.2	18.7		0.011	0.002	0.010	0.001	0.002	0.035	0.06
01NB01AF0005	14-AUG-84	1.9	7.2		0.020	0.002	0.010	0.001	0.002	0.065	0.13
01NB01AF0005	14-AUG-84	1.9	6.7		0.014	0.002	0.010	0.001	0.002	0.062	0.11
01NB01AF0005	14-AUG-84	1.9	7.2		0.013	0.002	0.010	0.001	0.002	0.065	0.13
01NB01AG0001	14-AUG-84	3.2	8.2		0.029	0.002	0.010	0.001	0.002	0.045	0.08
01NB01AG0001	14-AUG-84	3.1	8.2		0.030	0.002	0.010	0.001	0.002	0.043	0.08
01NB01AG0001	14-AUG-84	3.1	8.2		0.030	0.002	0.010	0.001	0.002	0.041	0.07
00NB01AJ0012	29-OCT-84	8.6	18.6		0.010	0.002	0.010	0.001	0.002	0.010	0.05
00NB01AJ0012	29-OCT-84	8.6	18.0		0.010	0.002	0.010	0.001	0.002	0.010	0.05
00NB01AJ0012	29-OCT-84	8.8	18.0		0.009	0.002	0.010	0.001	0.002	0.010	
00NB01AJ0029	29-OCT-84	5.6	9.5		0.005	0.002	0.010	0.001	0.002	0.010	
00NB01AJ0029	29-OCT-84	5.9	9.2		0.005	0.002	0.010	0.001	0.002	0.010	
00NB01AJ0029	29-OCT-84	5.8	9.5		0.004	0.002	0.010	0.001	0.002	0.010	
00NB01AD0017	30-OCT-84	1.2	5.0	4.2	0.006	0.002	0.010	0.001	0.002	0.041	0.12
00NB01AD0017	30-OCT-84				0.003	0.002	0.010	0.001	0.002	0.010	
00NB01AD0019	30-OCT-84	1.8	4.2		0.008	0.002	0.010	0.001	0.002	0.015	0.12
00NB01AD0019	30-OCT-84	1.8	4.2			0.002	0.010	0.001	0.002	0.017	0.11

TABLE 1. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS ON THE INTERNATIONAL SAINT JOHN RIVER

	SDATE	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	RESIDUE NONFILT.	ALUMINUM DISSOLVED	P TOTAL DISSOLVED	MERCURY EXTRACT.
00NB01AD0013	16-MAY-84	0.03	5.6	12.0	0.14	0.23		0.040	0.002	
00NB01AD0013	16-MAY-84	0.03	5.9	12.0	0.13	0.25		0.035	0.003	
00NB01AD0013	16-MAY-84	0.03	6.0	12.0	0.12	0.20		0.037	0.003	0.02
00NB01AD0017	16-MAY-84	0.02	7.1	13.0	0.08	0.15		0.070	1.000	0.02
00NB01AD0017	16-MAY-84	0.02	7.5	15.0	0.08	0.15		0.077	0.003	
00NB01AD0017	16-MAY-84	0.01	6.8	15.0	0.08	0.15		0.067	0.002	
00NB01AD0016	17-MAY-84	0.01	4.0	8.2	0.19	0.26		0.010	0.001	0.02
00NB01AD0016	17-MAY-84	0.01	4.2	8.4	0.14	0.18		0.010	0.001	0.02
00NB01AD0016	17-MAY-84	0.01	4.0	7.5	0.16	0.20		0.010	0.001	0.02
00NB01AF0002	26-JUN-84	0.02	8.7	14.0	0.04	0.08	29.8	0.050	0.006	0.02
00NB01AF0002	26-JUN-84	0.02	9.1	14.0	0.06	0.13	15.0	0.050	0.009	0.02
00NB01AF0002	26-JUN-84	0.03	8.7	14.0	0.04	0.13	10.0	0.050	0.006	0.02
00NB01AF0021	27-JUN-84	0.01	2.1	3.3	0.13	0.17	19.2	0.030	0.001	0.02
00NB01AF0021	27-JUN-84	0.01	2.0	3.5	0.12	0.18	10.0	0.030	0.007	0.02
00NB01AF0021	27-JUN-84	0.01	2.0	3.4	0.14	0.16	10.0	0.030	0.003	0.02
00NB01AF0023	27-JUN-84	0.09	14.0	18.0	0.06	0.13	207.0	0.100	0.009	0.02
00NB01AF0023	27-JUN-84	0.10	14.0	17.0	0.06	0.15	276.0	0.090	0.011	0.02
00NB01AF0023	27-JUN-84	0.09	12.0	18.0	0.06	0.15	364.0	0.100	0.009	
00NB01AG0003	14-AUG-84	0.01	4.5	12.0	1.95	2.00	10.0	0.015	0.005	0.02
00NB01AG0003	14-AUG-84	0.01	4.5	11.0	2.00	2.00	10.0	0.014	0.004	0.02
00NB01AG0003	14-AUG-84	0.01	4.7	11.0	1.95	2.00	10.0	0.016	0.005	0.02
01NB01AF0005	14-AUG-84	0.01	7.4	16.0	0.05	0.14	10.0	0.030	0.006	0.02
01NB01AF0005	14-AUG-84	0.01	6.9	15.0	0.06	0.14	10.0	0.025	0.005	0.02
01NB01AF0005	14-AUG-84	0.01	6.8	16.0	0.09	0.17	10.0	0.016	0.005	0.02
01NB01AG0001	14-AUG-84	0.02	6.7	16.0	0.51	0.66	10.0	0.030	0.013	0.02
01NB01AG0001	14-AUG-84	0.03	7.4	15.0	0.52	0.65	10.0	0.030	0.012	0.02
01NB01AG0001	14-AUG-84	0.03	7.0	17.0	0.39	0.52	10.0	0.025	0.013	0.02
00NB01AJ0012	29-OCT-84	0.01	2.3	4.5	1.10	1.00	10.0	0.010	0.003	0.02
00NB01AJ0012	29-OCT-84	0.01	2.7	4.5	1.15	1.00		0.010	0.003	0.02
00NB01AJ0012	29-OCT-84	0.01	2.3	4.5	1.05	1.00		0.010	0.003	0.02
00NB01AJ0029	29-OCT-84	0.01	3.4	6.0	0.17	0.23	10.0	0.010	0.001	0.02
00NB01AJ0029	29-OCT-84	0.01	3.4	6.0	0.25	0.24		0.010	0.001	0.02
00NB01AJ0029	29-OCT-84	0.01	3.8	5.7	0.22	0.28		0.010	0.001	0.02
00NB01AD0017	30-OCT-84	0.01	7.4	13.0	0.06	0.17	10.0	0.032	0.002	0.02
00NB01AD0017	30-OCT-84	0.01						0.010	0.001	0.02
00NB01AD0019	30-OCT-84	0.02	1.8	3.9	0.04	0.10		0.010	0.001	0.02
00NB01AD0019	30-OCT-84	0.02	2.0	3.9	0.05	0.10		0.010	0.002	0.02

TABLE 2. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
INCLUDED IN THE NOVA SCOTIA LRTAP LAKES MONITORING PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.
01NS01DA0004	02-MAY-84	5.8	60	0.5		1.5	30	1.70	1.20	0.40
01NS01DA0004	02-MAY-84	5.8	60	0.4		1.5	30	5.30	1.20	0.40
01NS01DA0004	02-MAY-84	5.8	60	0.5		1.6	35	1.70	1.20	0.40
01NS01DA0006	02-MAY-84	5.4	45	0.5		0.7	25	1.00	0.88	0.30
01NS01DA0006	02-MAY-84	5.6	45	0.4		0.6	25	1.00	0.82	0.30
01NS01DA0006	02-MAY-84	5.6	45	0.4		0.6	25	1.00	0.88	0.30
01NS01DA0007	02-MAY-84	5.7	53	0.6		1.8	30	1.50	0.90	0.60
01NS01DA0007	02-MAY-84	5.7	54	0.6		1.8	70	1.50	0.91	0.60
01NS01DA0007	02-MAY-84	5.7	54	0.7		1.8	70	1.50	0.93	0.60
01NS01EA0010	02-MAY-84	5.9	64	0.6		2.0	40	1.70	0.67	0.50
01NS01EA0010	02-MAY-84	6.0	63	0.6		2.1	40	1.70	0.73	0.50
01NS01EA0010	02-MAY-84	5.9	63	0.6		2.1	40	1.70	0.74	0.50
01NS01EA0011	02-MAY-84	6.2	96	0.6	3.8		20	2.70	1.70	0.70
01NS01EA0011	02-MAY-84	6.2	96	0.6	3.8		20	2.70	1.70	0.70
01NS01EA0011	02-MAY-84	6.3	96	0.6	3.8		20	2.70	1.70	0.70
01NS01ED0013	02-MAY-84	4.5	28	0.7		-1.0	45	0.26	0.31	0.30
01NS01ED0013	02-MAY-84	4.7	27	0.5		-1.0	50	0.27	0.38	0.30
01NS01ED0013	02-MAY-84	4.7	27	0.5		-0.9	50	0.25	0.30	0.30
01NS01ED0021	02-MAY-84	4.2	32	0.9		-2.0	120	0.27	0.32	0.20
01NS01ED0021	02-MAY-84	4.2	31	0.9		-2.1	120	0.26	0.28	0.20
01NS01ED0021	02-MAY-84	4.2	31	0.9		-2.0	120	0.27	0.29	0.20
01NS01DA0003	16-OCT-84	6.2	50	0.3	0.9		5	1.10	0.89	0.40
01NS01DA0003	16-OCT-84	6.1	50	0.4	0.9		5	1.00	0.87	0.40
01NS01DA0003	16-OCT-84	6.1	50	0.4	0.9		5	1.00	0.91	0.40
01NS01EA0002	16-OCT-84	5.8	49	0.5		0.4	5	1.00	0.85	0.40
01NS01EA0002	16-OCT-84	5.8	49	0.5		0.4	5	1.00	0.86	0.35
01NS01EA0002	16-OCT-84	5.8	49	0.5		0.4	5	1.00	0.86	0.35
01NS01ED0006	17-OCT-84	6.2	29	0.7	1.3		30	0.93	0.55	0.22
01NS01ED0006	17-OCT-84	6.2	29	0.6	1.4		30	0.97	0.56	0.22
01NS01ED0006	17-OCT-84	6.3	29	0.7	1.4		30	0.97	0.55	0.22
01NS01ED0008	17-OCT-84									
01NS01ED0008	17-OCT-84									
01NS01ED0008	17-OCT-84									
01NS01ED0010	17-OCT-84	4.6	31	1.0		-1.3	160	0.40	0.38	0.27
01NS01ED0010	17-OCT-84	4.6	31	0.8		-1.3	160	0.36	0.38	0.27
01NS01ED0010	17-OCT-84	4.6	31	0.9		-1.4	160	0.37	0.38	0.27
01NS01ED0013	17-OCT-84									
01NS01ED0013	17-OCT-84									
01NS01ED0013	17-OCT-84									
01NS01ED0017	17-OCT-84	5.5	25	0.8		0.0	10	0.45	0.41	0.25

TABLE 2. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NOVA SCOTIA LRTAP LAKES MONITORING PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.
01NS01ED0017	17-OCT-84	5.5	25	0.8		0.0	10	0.45	0.42	0.27
01NS01ED0017	17-OCT-84	5.5	25	0.8		-0.2	10	0.44	0.42	0.25
01NS01ED0025	17-OCT-84									
01NS01ED0025	17-OCT-84									
01NS01ED0025	17-OCT-84									
01NS01ED0043	17-OCT-84									
01NS01ED0043	17-OCT-84									
01NS01ED0043	17-OCT-84									

TABLE 2. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NOVA SCOTIA LRTAP LAKES MONITORING PROGRAM

	SDATE	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.	PB EXTRACT.
01NS01DA0004	02-MAY-84	7.0	12.0	4.8		0.007	0.002	0.01	0.001	0.002
01NS01DA0004	02-MAY-84	6.9	12.1	4.8		0.004	0.002	0.01	0.001	0.002
01NS01DA0004	02-MAY-84	7.0	12.0	4.9	4.1	0.008	0.002	0.01	0.001	0.002
01NS01DA0006	02-MAY-84	5.4	8.7	3.9		0.004	0.002	0.01	0.001	0.002
01NS01DA0006	02-MAY-84	5.3	9.2	3.9		0.005	0.002	0.01	0.001	0.002
01NS01DA0006	02-MAY-84	5.2	9.2	4.0		0.004	0.002	0.01	0.001	0.002
01NS01DA0007	02-MAY-84	6.3	9.7	5.0	3.9	0.003	0.002	0.01	0.001	0.002
01NS01DA0007	02-MAY-84	6.5	9.7	5.0	3.9	0.006	0.002	0.01	0.001	0.002
01NS01DA0007	02-MAY-84	6.5	9.7	5.0	3.9	0.005	0.002	0.01	0.001	0.002
01NS01EA0010	02-MAY-84	7.2	12.4	5.1	4.4	0.008	0.002	0.01	0.001	0.002
01NS01EA0010	02-MAY-84	7.1	13.2	5.0	4.4	0.006	0.002	0.01	0.001	0.002
01NS01EA0010	02-MAY-84	6.8	12.5	5.0	4.4	0.007	0.002	0.01	0.001	0.002
01NS01EA0011	02-MAY-84	11.3	21.0	5.8		0.006	0.002	0.01	0.001	0.002
01NS01EA0011	02-MAY-84	10.8	21.0	6.0		0.006	0.002	0.01	0.001	0.002
01NS01EA0011	02-MAY-84	11.4	21.0	6.0		0.005	0.002	0.01		
01NS01ED0013	02-MAY-84	2.3	3.5	2.7	2.4	0.007	0.002	0.01	0.001	0.002
01NS01ED0013	02-MAY-84	2.2	3.5	2.7	2.3	0.008	0.002	0.01	0.001	0.002
01NS01ED0013	02-MAY-84	2.2	3.5	2.7	2.5	0.005	0.002	0.01	0.001	0.002
01NS01ED0021	02-MAY-84	2.4	3.0	3.8	2.1	0.011	0.002	0.01	0.001	0.002
01NS01ED0021	02-MAY-84	2.4	3.0	3.8	2.3	0.011	0.002	0.01	0.001	0.002
01NS01ED0021	02-MAY-84	2.4	3.0	3.8	2.1	0.013	0.002	0.01	0.001	0.002
01NS01DA0003	16-OCT-84	5.9	9.8	4.0		0.002	0.002	0.01	0.001	0.002
01NS01DA0003	16-OCT-84	6.0	10.1	4.0		0.003	0.002	0.01	0.001	0.002
01NS01DA0003	16-OCT-84	5.9	10.3	4.0		0.003	0.002	0.01	0.001	0.002
01NS01EA0002	16-OCT-84	5.7	10.1	4.0		0.009	0.002	0.01	0.001	0.002
01NS01EA0002	16-OCT-84	5.6	10.7	4.0		0.002	0.002	0.01	0.001	0.002
01NS01EA0002	16-OCT-84	5.6	10.0	4.0		0.001	0.002	0.01	0.001	0.002
01NS01ED0006	17-OCT-84	3.5	5.0	3.7		0.004	0.002	0.01	0.001	0.002
01NS01ED0006	17-OCT-84	3.4	5.0	2.2		0.005	0.002	0.01	0.001	0.002
01NS01ED0006	17-OCT-84	3.5	5.0	2.2		0.004	0.002	0.01	0.001	0.002
01NS01ED0008	17-OCT-84					0.004	0.002	0.01	0.001	0.002
01NS01ED0008	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0008	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0010	17-OCT-84	2.8	3.9	4.2	2.0	0.007	0.002	0.01	0.001	0.002
01NS01ED0010	17-OCT-84	2.7	3.9	4.2	2.0	0.007	0.002	0.01	0.001	0.002
01NS01ED0010	17-OCT-84	2.8	3.9	4.2	2.0	0.009	0.002	0.01	0.001	0.002
01NS01ED0013	17-OCT-84					0.001	0.002	0.01	0.001	0.002
01NS01ED0013	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0013	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0017	17-OCT-84	3.0	4.6	2.5		0.001	0.002	0.01	0.001	0.002

TABLE 2. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NOVA SCOTIA LRTAP LAKES MONITORING PROGRAM

	SDATE	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.	PB EXTRACT.
01NS01ED0017	17-OCT-84	2.9	4.4	2.5		0.001	0.002	0.01	0.001	0.002
01NS01ED0017	17-OCT-84	2.9	4.6	2.6		0.001	0.002	0.01	0.001	0.002
01NS01ED0025	17-OCT-84					0.004	0.002	0.01	0.001	0.002
01NS01ED0025	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0025	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0043	17-OCT-84					0.005	0.002	0.01	0.001	0.002
01NS01ED0043	17-OCT-84						0.002	0.01	0.001	0.002
01NS01ED0043	17-OCT-84						0.002	0.01	0.001	0.002

TABLE 2. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NOVA SCOTIA LRTAP LAKES MONITORING PROGRAM

	SDATE	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
01NS01DA0004	02-MAY-84	0.110	0.06	0.02	5.9	13.0	0.01	0.07	0.05	1.9
01NS01DA0004	02-MAY-84	0.110	0.06	0.02	6.6	13.0	0.01	0.07	0.05	1.9
01NS01DA0004	02-MAY-84	0.110	0.06	0.02	6.9	13.0	0.01	0.06	0.05	1.9
01NS01DA0006	02-MAY-84	0.087	0.05	0.02	4.7	9.8	0.01	0.05	0.05	1.9
01NS01DA0006	02-MAY-84	0.100	0.04	0.01	4.2	9.5	0.01	0.05	0.05	1.9
01NS01DA0006	02-MAY-84	0.085	0.05	0.01	4.4	9.7	0.01	0.05	0.05	2.0
01NS01DA0007	02-MAY-84	0.210	0.13	0.02	11.0	22.0	0.01	0.09	0.05	0.4
01NS01DA0007	02-MAY-84	0.200	0.13	0.01	9.5	22.0	0.01	0.09	0.05	0.4
01NS01DA0007	02-MAY-84	0.220	0.13	0.02	9.8	22.0	0.01	0.09	0.05	0.4
01NS01EA0010	02-MAY-84	0.100	0.12	0.02	7.7	14.0	0.03	0.12	0.05	2.0
01NS01EA0010	02-MAY-84	0.100	0.12	0.02	6.6	14.0	0.04	0.12	0.05	2.1
01NS01EA0010	02-MAY-84	0.110	0.12	0.02	7.1	14.0	0.04	0.14	0.05	2.1
01NS01EA0011	02-MAY-84	0.088	0.06	0.01	5.7	12.0	0.06	0.13	0.05	1.1
01NS01EA0011	02-MAY-84	0.088	0.07	0.01	5.4	12.0	0.06	0.14	0.05	1.1
01NS01EA0011	02-MAY-84				6.0	12.0	0.06	0.12	0.05	1.2
01NS01ED0013	02-MAY-84	0.170	0.10	0.01	5.6	16.0	0.01	0.06	0.05	2.0
01NS01ED0013	02-MAY-84	0.160	0.01	0.01	5.1		0.01	0.06	0.05	1.8
01NS01ED0013	02-MAY-84	0.170	0.01	0.01	5.2		0.01	0.05	0.05	1.8
01NS01ED0021	02-MAY-84	0.210	0.09	0.01	14.0	22.0	0.01	0.09	0.05	2.1
01NS01ED0021	02-MAY-84	0.200	0.07	0.01	13.0	21.0	0.01	0.08	0.05	1.9
01NS01ED0021	02-MAY-84	0.200	0.09	0.01	14.0	22.0	0.01	0.05	0.05	2.1
01NS01DA0003	16-OCT-84	0.014		0.01	2.5	1.8	0.01	0.11	0.05	0.6
01NS01DA0003	16-OCT-84	0.014	0.05	0.01	2.6	3.3	0.01	0.16	0.05	0.6
01NS01DA0003	16-OCT-84	0.018	0.05	0.01	2.6	3.3	0.01	0.11	0.05	0.7
01NS01EA0002	16-OCT-84	0.022		0.02	2.6	3.0	0.01	0.11		0.2
01NS01EA0002	16-OCT-84	0.022	0.05	0.02	2.7	3.0	0.01	0.10		0.2
01NS01EA0002	16-OCT-84	0.022		0.02	2.6	3.0	0.01	0.10		0.2
01NS01ED0006	17-OCT-84	0.043	0.30	0.05	4.9	11.0	0.01	0.13	0.05	1.8
01NS01ED0006	17-OCT-84	0.045	0.30	0.05	4.8	11.0	0.01	0.14	0.05	1.8
01NS01ED0006	17-OCT-84	0.045	0.29	0.05	4.9	11.0	0.01	0.14	0.05	1.8
01NS01ED0008	17-OCT-84	0.210	0.18	0.01						
01NS01ED0008	17-OCT-84	0.240	0.17	0.01						
01NS01ED0008	17-OCT-84	0.230	0.18	0.01						
01NS01ED0010	17-OCT-84	0.280	0.32	0.01	14.0	20.0	0.01	0.15	0.05	1.0
01NS01ED0010	17-OCT-84	0.320	0.30	0.01	14.0	25.0	0.01	0.14	0.05	1.0
01NS01ED0010	17-OCT-84	0.310	0.30	0.01	15.0	25.0	0.01	0.16	0.05	1.0
01NS01ED0013	17-OCT-84	0.090		0.01						
01NS01ED0013	17-OCT-84	0.065		0.01						
01NS01ED0013	17-OCT-84	0.087	0.06	0.01						
01NS01ED0017	17-OCT-84	0.100	0.10	0.01	3.7	5.9	0.01	0.11	0.05	0.7

TABLE 2. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NOVA SCOTIA LRTAP LAKES MONITORING PROGRAM

	SDATE	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
01NS01ED0017	17-OCT-84	0.100	0.10	0.02	3.5	5.9	0.02	0.14	0.05	0.7
01NS01ED0017	17-OCT-84	0.100	0.10	0.01	3.8	2.9	0.02	0.18	0.05	0.7
01NS01ED0025	17-OCT-84	0.140	0.18	0.01						
01NS01ED0025	17-OCT-84	0.240	0.19	0.01						
01NS01ED0025	17-OCT-84	0.210	0.20	0.01						
01NS01ED0043	17-OCT-84	0.120	0.24	0.01						
01NS01ED0043	17-OCT-84	0.150	0.24	0.01						
01NS01ED0043	17-OCT-84	0.100	0.22	0.01						

TABLE 3. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NEWFOUNDLAND LRTAP LAKES MONITORING PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.
01NF02YS0010	07-JUN-84	5.8	18.0	0.5		1.7	100	1.10	0.30	0.10
01NF02YS0010	07-JUN-84	5.9	18.0	0.5		1.7	100	1.10	0.35	0.20
01NF02YS0010	07-JUN-84	5.9	18.0	0.5		1.8	100	1.10	0.35	0.10
01NF02YS0021	07-JUN-84	5.8	12.9	0.5		1.0	40	0.50	0.18	0.20
01NF02YS0021	07-JUN-84	5.7	12.2	0.5		1.0	40	0.48	0.20	0.20
01NF02YS0021	07-JUN-84	5.7	12.3	0.4		0.9	40	0.48	0.22	0.20
01NF02YS0029	07-JUN-84	5.9	16.0	0.6		1.7	50	1.23	0.30	0.20
01NF02YS0029	07-JUN-84	5.9	18.0	0.6		1.7	55	1.23	0.30	0.20
01NF02YS0029	07-JUN-84	6.0	18.0	0.6		1.7	55	1.23	0.30	0.20
01NF02YS0048	07-JUN-84	5.9	35.0	0.4			25	1.00	0.52	0.40
01NF02YS0048	07-JUN-84	6.0	36.0	0.4		1.5	25	1.00	0.54	0.30
01NF02YS0048	07-JUN-84	6.0	35.0	0.4		1.5	25	1.00	0.54	0.40
01NF02YH0015	08-JUN-84	5.2	13.3	0.5		0.2	50	0.48	0.20	0.20
01NF02YH0015	08-JUN-84	5.0	13.5	0.5		-0.1	50	0.43	0.20	0.20
01NF02YH0015	08-JUN-84	5.0	13.2	0.5		-0.1	40	0.43	0.20	0.20
01NF02YH0013	25-SEP-84	5.4	16.0	0.2		-0.2	5	0.29	0.24	0.15
01NF02YH0013	25-SEP-84	5.2	16.0	0.3		-0.5	5	0.28	0.23	0.19
01NF02YH0013	25-SEP-84	5.4	16.0	0.2		-0.3	5	0.27	0.23	0.15
01NF02YD0007	25-SEP-84	6.5	20.0	0.6	3.5		60	1.70	0.44	0.30
01NF02YD0007	25-SEP-84	6.5	20.0	0.5	3.4		60	1.70	0.43	0.30
01NF02YD0007	25-SEP-84	6.6	20.0	0.5	3.5		50	1.70	0.44	0.27
01NF02ZF0003	25-SEP-84	6.4	17.0	0.8	1.4		20	0.71	0.24	0.25
01NF02ZF0003	25-SEP-84	6.4	17.0	0.8	1.4		30	0.74	0.24	0.22
01NF02ZF0003	25-SEP-84	6.4	17.0	0.8	1.3		20	0.76	0.24	0.22
01NF02YS0009	26-SEP-84	5.5	21.0	0.7		0.8	120	1.00	0.41	0.19
01NF02YS0009	26-SEP-84	5.5	21.0	0.6		1.3	120	1.00	0.41	0.19
01NF02YS0009	26-SEP-84	5.5	24.0	1.4		1.1	140	1.00	0.41	0.19
01NF02YS0016	26-SEP-84	6.3	30.0	0.6	2.7		90	1.90	0.56	0.25
01NF02YS0016	26-SEP-84	6.4	30.0	0.7	2.7		80	1.90	0.54	0.22
01NF02YS0016	26-SEP-84	6.3	30.0	0.6	2.7		80	1.90	0.56	0.22

TABLE 3. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NEWFOUNDLAND LRTAP LAKES MONITORING PROGRAM

	SDATE	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.	PB EXTRACT.
01NF02YS0010	07-JUN-84	1.2	2.4	2.5	0.9	0.008	0.002	0.01	0.001	0.002
01NF02YS0010	07-JUN-84	1.7	2.4	2.5	0.9	0.009	0.002	0.01	0.001	0.002
01NF02YS0010	07-JUN-84	1.4	2.4	2.5	0.9	0.010	0.002	0.01	0.001	0.002
01NF02YS0021	07-JUN-84	0.9	1.8	1.5	1.0	0.004	0.002	0.01	0.001	0.002
01NF02YS0021	07-JUN-84	1.0	1.8	1.5	1.0	0.011	0.002	0.01	0.001	0.002
01NF02YS0021	07-JUN-84	0.9	1.8	1.5	1.0	0.005	0.002	0.01	0.001	0.002
01NF02YS0029	07-JUN-84	1.2	2.4	2.0	0.9	0.009	0.002	0.01	0.001	0.002
01NF02YS0029	07-JUN-84	1.3	2.4	2.0	1.0	0.008	0.002	0.01	0.001	0.002
01NF02YS0029	07-JUN-84	1.2	2.4	2.3	1.0	0.004	0.002	0.01	0.001	0.002
01NF02YS0048	07-JUN-84	4.2	6.9	2.3		0.005	0.002	0.01	0.001	0.002
01NF02YS0048	07-JUN-84	4.0	7.0	2.5		0.002	0.002	0.01	0.001	0.002
01NF02YS0048	07-JUN-84	4.2	6.9	2.5		0.003	0.002	0.01	0.001	0.002
01NF02YH0015	08-JUN-84	0.7	1.7	1.8	1.0	0.007	0.002	0.01	0.001	0.002
01NF02YH0015	08-JUN-84	0.7	1.7	1.8	1.4	0.010	0.002	0.01	0.001	0.002
01NF02YH0015	08-JUN-84	0.7	1.7	1.8	1.4	0.012	0.002	0.01	0.001	0.002
01NF02YH0013	25-SEP-84	1.6	2.5	1.4		0.001	0.002	0.01	0.001	0.002
01NF02YH0013	25-SEP-84	1.6	2.5	1.4		0.003	0.002	0.01	0.001	0.002
01NF02YH0013	25-SEP-84	1.5	2.5	1.4		0.002	0.002	0.01	0.001	0.002
01NF02YD0007	25-SEP-84	1.6	1.7	1.7	1.0	0.008	0.002	0.01	0.001	0.002
01NF02YD0007	25-SEP-84	1.6	1.6	1.7	1.0	0.010	0.002	0.01	0.001	0.002
01NF02YD0007	25-SEP-84	1.5	1.7	1.7	1.0	0.005	0.002	0.01	0.001	0.002
01NF02ZF0003	25-SEP-84	1.9	2.2	1.0		0.001	0.002	0.01	0.001	0.002
01NF02ZF0003	25-SEP-84	1.8	2.3	1.1		0.003	0.002	0.01	0.001	0.002
01NF02ZF0003	25-SEP-84	1.8	2.2	1.1		0.004	0.002	0.01	0.001	0.002
01NF02YS0009	26-SEP-84	2.1	2.7	3.0	1.0	0.006	0.002	0.01	0.001	0.002
01NF02YS0009	26-SEP-84	2.2	2.6	3.0	1.0	0.005	0.002	0.01	0.001	0.002
01NF02YS0009	26-SEP-84	2.3	2.6	3.0	1.0	0.007	0.002	0.01	0.001	0.002
01NF02YS0016	26-SEP-84	3.0	3.9	2.2	1.0	0.003	0.002	0.01	0.001	0.002
01NF02YS0016	26-SEP-84	2.9	3.8	2.2	1.0	0.004	0.002	0.01	0.001	0.002
01NF02YS0016	26-SEP-84	2.7	3.9	2.5	1.0	0.004	0.002	0.01	0.001	0.002

TABLE 3. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE NEWFOUNDLAND LRTAP LAKES MONITORING PROGRAM

	SDATE	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
01NF02YS0010	07-JUN-84	0.120	0.13	0.01	13.0	17.0	0.01	0.07		
01NF02YS0010	07-JUN-84	0.120	0.13	0.01	13.0	17.0	0.01	0.05		
01NF02YS0010	07-JUN-84	0.130	0.13	0.01	13.0	17.0	0.01	0.08		
01NF02YS0021	07-JUN-84	0.063	0.13	0.01	6.6	9.8	0.01	0.07		
01NF02YS0021	07-JUN-84	0.067	0.12	0.01	6.9	9.1	0.01	0.06		
01NF02YS0021	07-JUN-84	0.067	0.12	0.01	7.9	9.7	0.01	0.06		
01NF02YS0029	07-JUN-84	0.100	0.13	0.01	11.0	15.0	0.01	0.06		
01NF02YS0029	07-JUN-84	0.086	0.13	0.01	10.0	15.0	0.01	0.06		
01NF02YS0029	07-JUN-84	0.075	0.12	0.01	11.0	15.0	0.01	0.06		
01NF02YS0048	07-JUN-84	0.120	0.03	0.01	7.4	9.7	0.01	0.08		
01NF02YS0048	07-JUN-84	0.120	0.03	0.01	7.6	10.0	0.01	0.08		
01NF02YS0048	07-JUN-84	0.130	0.02	0.01	6.6	9.7	0.01	0.09		
01NF02YH0015	08-JUN-84	0.140	0.22	0.02	5.0	10.0	0.01	0.05		
01NF02YH0015	08-JUN-84	0.130	0.23	0.01	4.8	9.8	0.01	0.05		
01NF02YH0015	08-JUN-84	0.110	0.22	0.01	5.0	10.0	0.01	0.05		
01NF02YH0013	25-SEP-84	0.067	0.05	0.01	1.0	1.2	0.09	0.11	0.05	0.8
01NF02YH0013	25-SEP-84	0.071	0.05	0.01	1.0	1.0	0.09	0.12	0.05	0.8
01NF02YH0013	25-SEP-84	0.080	0.05	0.01	1.0	1.0	0.09	0.12	0.05	0.8
01NF02YD0007	25-SEP-84	0.096	0.19	0.01	7.2	12.0	0.02	0.11	0.05	2.8
01NF02YD0007	25-SEP-84	0.100	0.20	0.01	7.3	12.0	0.02	0.10	0.05	2.9
01NF02YD0007	25-SEP-84	0.110	0.19	0.01	7.0	14.0	0.02	0.10	0.05	2.9
01NF02ZF0003	25-SEP-84	0.030	0.22	0.01	2.9	4.5	0.01	0.10	0.05	0.9
01NF02ZF0003	25-SEP-84	0.028	0.22	0.01	3.0	4.3	0.01	0.11	0.05	0.9
01NF02ZF0003	25-SEP-84	0.028	0.21	0.01	3.2	4.3	0.01	0.10	0.05	0.9
01NF02YS0009	26-SEP-84	0.220	0.37	0.01	12.0	18.0	0.01	0.10	0.05	1.8
01NF02YS0009	26-SEP-84	0.230	0.38	0.01	12.0	20.0	0.01	0.10	0.05	1.8
01NF02YS0009	26-SEP-84	0.230	0.40	0.02	12.0	23.0	0.01	0.10	0.05	1.8
01NF02YS0016	26-SEP-84	0.140	0.28	0.01	10.0	19.0	0.01	0.12	0.05	2.1
01NF02YS0016	26-SEP-84	0.140	0.28	0.02	10.0	19.0	0.01	0.10	0.05	2.0
01NF02YS0016	26-SEP-84	0.140	0.28	0.01	10.0	20.0	0.01	0.10	0.05	1.7

TABLE 4. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE KEJIMKUJIK CALIBRATED BASIN PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.	NA DISS.
00NS01ED0030	02-APR-84	5.2	31	0.4		0.2	50	0.82	0.50	0.20	3.1
00NS01ED0030	02-APR-84	5.2	31	0.4		0.3	45	0.82	0.55	0.20	3.1
00NS01ED0030	02-APR-84	5.2	31	0.5		0.3	45	0.83	0.55	0.20	3.1
00NS01EE0015	09-APR-84	5.6	35	0.6		0.8	40	0.97	0.52	0.20	4.4
00NS01EE0015	09-APR-84	5.7	35	0.6		0.8	40	0.97	0.53	0.20	4.4
00NS01EE0015	09-APR-84	5.5	35	0.6		0.9	40	1.00	0.56	0.30	4.6
00NS01ED0005	16-APR-84	4.8	32	1.3		-0.3	80	0.90	0.44	0.20	3.0
00NS01ED0005	16-APR-84	4.8	32	0.7		-0.3	70	0.80	0.44	0.30	3.1
00NS01ED0005	16-APR-84	4.1	58	0.8		-3.9	60	0.90	0.57	0.20	3.0
00NS01EE0014	23-APR-84	4.6	28	0.5		-1.1	100	0.51	0.35	0.40	2.3
00NS01EE0014	23-APR-84	4.6	28	0.6		-1.0	100	0.55	0.40	0.40	2.3
00NS01EE0014	23-APR-84	4.6	28	0.5		-1.0	100	0.55	0.38	0.40	2.3
00NS01ED0030	30-APR-84	5.3	30	1.9		0.5	70	0.80	0.47	0.20	2.9
00NS01ED0030	30-APR-84	5.3	29	2.0		0.4	70	0.80	0.50	0.20	3.1
00NS01ED0030	30-APR-84	5.3	29	2.0		0.5	70	0.80	0.50	0.20	2.9
00NS01EE0015	07-MAY-84	5.7	34	0.5		1.2	50	0.93	0.51	0.20	3.9
00NS01EE0015	07-MAY-84	5.2	35	0.3		0.4	40	0.92	0.52	0.20	2.8
00NS01EE0015	07-MAY-84	5.6	33	0.3		1.0	45	0.93	0.52	0.20	4.0
00NS01ED0005	14-MAY-84	4.9	29	0.6		-0.3	90	0.75	0.40	0.30	2.8
00NS01ED0005	14-MAY-84	4.9	29	0.6		-0.2	90	0.71	0.40	0.30	2.8
00NS01ED0005	14-MAY-84	4.9	29	0.4		-0.2	90	0.71	0.40	0.30	2.8
00NS01EE0014	21-MAY-84	4.6	28	0.3		-1.0	140	0.50	0.39	0.30	2.2
00NS01EE0014	21-MAY-84	4.6	28	0.6		-0.9	140	0.50	0.39	0.30	1.9
00NS01EE0014	21-MAY-84	4.6	28	0.5		-1.0	140	0.50	0.39	0.30	2.1
00NS01ED0027	23-MAY-84	4.6	25	0.3		-1.0	130	0.40	0.27	0.10	2.3
00NS01ED0027	23-MAY-84	4.6	25	0.3		-1.0	130	0.40	0.27	0.10	1.7
00NS01ED0027	23-MAY-84	4.5	27	0.4		-1.1	150	0.43	0.26	0.10	2.2
00NS01ED0030	28-MAY-84	5.5	29	1.4		1.5	120	1.05	0.51	0.20	2.9
00NS01ED0030	28-MAY-84	5.4	29	1.5		1.3	120	0.90	0.55	0.20	3.0
00NS01ED0030	28-MAY-84	5.4	29	1.2		1.2	120	0.95	0.57	0.20	2.8
00NS01EE0015	04-JUN-84	5.6	32	0.4		1.4	60	0.95	0.50	0.10	4.0
00NS01EE0015	04-JUN-84	5.6	32	0.5		1.4	60	0.95	0.50	0.10	3.9
00NS01EE0015	04-JUN-84	5.6	32	0.5		1.5	60	0.95	0.52	0.10	3.4
00NS01ED0005	11-JUN-84	5.0	28	0.7		0.1	90	0.70	0.45	0.20	2.8
00NS01ED0005	11-JUN-84	4.9	29	0.6		-0.1	90	0.70	0.45	0.20	2.9
00NS01ED0005	11-JUN-84	5.0	29	0.6		0.1	100	0.70	0.45	0.20	2.4
00NS01EE0014	18-JUN-84	4.6	29	0.6		-0.7	200	0.75	0.44	0.20	2.5
00NS01EE0014	18-JUN-84	4.6	29	0.3		-0.8	200	0.75	0.44	0.20	2.8
00NS01EE0014	18-JUN-84	4.6	29	0.3		-0.9	200	0.75	0.44	0.20	2.6
00NS01ED0030	25-JUN-84	5.8	32	1.3		2.3	150	1.20	0.73	0.20	4.0

TABLE 4. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE KEJIMKUJIK CALIBRATED BASIN PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.	NA DISS.
00NS01ED0030	25-JUN-84	5.8	32	1.8		2.4	175	1.20	0.73	0.20	4.0
00NS01ED0030	25-JUN-84	4.9	36	1.5		0.0	160	1.10	0.73	0.20	3.7
00NS01ED0018	27-JUN-84	4.6	32	0.6		-1.0	200	0.60	0.45	0.10	2.7
00NS01ED0018	27-JUN-84	4.5	33	0.6		-1.4	200	0.55	0.45	0.10	3.0
00NS01ED0018	27-JUN-84	4.5	33	0.8		-1.5	200	0.55	0.45	0.10	2.8
00NS01EE0015	02-JUL-84	6.0	34	0.4		2.5	80	1.10	0.60	0.20	4.3
00NS01EE0015	02-JUL-84	6.0	33	0.6		2.5	80	1.10	0.60	0.20	4.2
00NS01EE0015	02-JUL-84	6.2	33	0.5	2.0		80	1.00	0.60	0.20	4.0
00NS01ED0005	09-JUL-84	4.9	29	0.7		0.1	120	0.75	0.48	0.25	3.0
00NS01ED0005	09-JUL-84	4.8	31	1.0		-0.1	120	0.75	0.48	0.25	3.0
00NS01ED0005	09-JUL-84	5.0	29	0.8		0.2	120	0.75	0.48	0.25	3.2
00NS01EE0014	19-JUL-84	4.5	34	0.7		-0.8	240	0.85	0.52	0.30	2.9
00NS01EE0014	19-JUL-84	4.5	35	0.7		-1.1	240	0.85	0.52	0.30	2.7
00NS01EE0014	19-JUL-84	4.5	34	1.0		-1.0	240	0.85	0.52	0.30	3.0
00NS01ED0030	23-JUL-84	6.0	36	1.8		3.6	200	1.70	0.96	0.40	4.0
00NS01ED0030	23-JUL-84	6.0	36	2.5		4.0	200	1.70	0.98	0.35	4.0
00NS01ED0030	23-JUL-84	5.9	36	2.7		3.7	200	1.70	0.96	0.30	3.7
00NS01ED0019	27-JUL-84	4.8	28	1.1		-0.3	160	0.65	0.42	0.25	3.2
00NS01ED0019	27-JUL-84	5.0	28	1.4		0.4	140	0.65	0.43	0.30	3.0
00NS01ED0019	27-JUL-84	4.9	28	1.5		-0.1	160	0.65	0.40	0.20	3.2
00NS01EE0015	30-JUL-84	6.0	36	0.7		3.1	90	1.30	0.67	0.20	4.4
00NS01EE0015	30-JUL-84	6.0	36	0.7		3.1	90	1.30	0.70	0.20	4.4
00NS01EE0015	30-JUL-84	6.0	36	0.7		3.0	90	1.30	0.70	0.20	4.6
00NS01ED0005	06-AUG-84	5.2	30	0.7		0.3	80	0.78	0.47	0.20	3.6
00NS01ED0005	06-AUG-84	5.2	30	0.6		0.2	80	0.83	0.47	0.20	3.6
00NS01ED0005	06-AUG-84	5.3	30	0.5		0.2	80	0.83	0.45	0.20	3.5
00NS01EB0007	09-AUG-84	4.8	33	0.7		-0.3	160	1.00	0.47	0.25	3.7
00NS01EB0007	09-AUG-84	4.8	34	0.5		-0.4	160	0.75	0.47	0.25	3.7
00NS01EB0007	09-AUG-84	4.8	34	0.6		-0.5	160	0.65	0.47	0.20	3.7
00NS01EC0005	09-AUG-84	4.5	34	0.7		-1.7	160	0.45	0.39	0.20	3.0
00NS01EC0005	09-AUG-84	4.5	33	1.0		-1.6	160	0.45	0.37	0.20	3.0
00NS01EC0005	09-AUG-84	4.5	34	0.7		-1.6	180	0.45	0.36	0.20	3.0
00NS01ED0030	20-AUG-84	5.5	38	2.0		2.5	200	1.80	0.92	0.50	4.4
00NS01ED0030	20-AUG-84	5.5	38	1.9		2.6	220	1.80	0.93	0.50	3.7
00NS01ED0030	20-AUG-84	5.5	38	2.0		2.5	220	1.80	0.93	0.50	4.0
00NS01EE0015	27-AUG-84	6.2	43	0.6	2.7		70	1.40	0.75	0.40	5.2
00NS01EE0015	27-AUG-84	6.2	43	0.7	2.8		75	1.40	0.75	0.40	5.1
00NS01EE0015	27-AUG-84	6.1	43	0.7	2.7		75	1.40	0.75	0.40	5.3
00NS01ED0005	03-SEP-84	5.3	30	0.5		0.5	100	0.78	0.50	0.28	3.2
00NS01ED0005	03-SEP-84	5.3	30	0.5		0.5	100	0.78	0.50	0.20	3.2

TABLE 4. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
INCLUDED IN THE KEJIMKUJIK CALIBRATED BASIN PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.	K DISS.	NA DISS.
00NS01ED0005	03-SEP-84	5.9	30	0.5		1.6	100	0.85	0.51	0.20	3.0
00NS01EE0014	10-SEP-84	4.7	35	0.4		-0.3	240	1.20	0.69	0.40	3.4
00NS01EE0014	10-SEP-84	4.7	36	0.7		-0.4	240	1.10	0.69	0.45	3.4
00NS01EE0014	10-SEP-84	4.7	36	0.5		-0.4	240	1.10	0.70	0.45	2.4
00NS01ED0030	17-SEP-84	4.8	37	1.3		0.5	160	1.40	0.84	0.20	3.7
00NS01ED0030	17-SEP-84	4.8	37	1.2		0.2	160	1.40	0.84	0.10	3.6
00NS01ED0030	17-SEP-84	4.9	37	1.2		0.2	160	1.40	0.84	0.10	3.6
00NS01EE0015	24-SEP-84	5.9	35	0.5		1.5	50	0.95	0.58	0.25	4.3
00NS01EE0015	24-SEP-84	5.9	35	0.5		1.5	50	0.96	0.60	0.22	4.4
00NS01EE0015	24-SEP-84	5.8	35	0.5		1.5	50	0.99	0.60	0.22	4.1
00NS01ED0005	01-OCT-84	5.2	29	0.7		0.5	160	0.85	0.50	0.27	3.2
00NS01ED0005	01-OCT-84	5.2	29	0.6		0.4	140	0.84	0.49	0.30	3.3
00NS01ED0005	01-OCT-84	5.2	29	0.7		0.4	160	0.85	0.49	0.30	3.5
00NS01EE0014	08-OCT-84	4.7	36	0.3		-0.4	240	1.10	0.72	0.40	3.5
00NS01EE0014	08-OCT-84	4.7	36	0.5		-0.5	240	1.10	0.72	0.40	3.3
00NS01EE0014	08-OCT-84	4.7	36	0.5		-0.5	240	1.10	0.72	0.40	3.3
00NS01ED0005	29-OCT-84	5.2	31	0.5		0.3	100	0.94	0.52	0.31	3.4
00NS01ED0005	29-OCT-84	5.2	31	0.6		0.5	100	0.91	0.52	0.35	3.4
00NS01ED0005	29-OCT-84	5.2	31	0.7		0.4	100	0.89	0.52	0.35	3.4

TABLE 4. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
INCLUDED IN THE KEJIMKUJIK CALIBRATED BASIN PROGRAM

	SDATE	CL DISS.	SO4DISS. MTB	SO4DISS. IC	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	SIO2
00NS01ED0030	02-APR-84	4.8	4.1	3.8	0.065	0.21	0.02	4.1		0.01		4.6
00NS01ED0030	02-APR-84	4.8	3.9	3.5	0.065	0.18	0.02	3.8		0.01		4.6
00NS01ED0030	02-APR-84	4.8	4.0	3.8	0.065	0.22	0.02	4.1		0.01		4.0
00NS01EE0015	09-APR-84	6.8	3.5	2.9	0.063	0.11	0.03	4.0		0.01		1.5
00NS01EE0015	09-APR-84	6.8	3.5	2.9	0.066	0.11	0.03	4.5		0.01		1.5
00NS01EE0015	09-APR-84	6.8	3.4	2.9	0.066	0.10	0.03	4.2		0.01		1.5
00NS01ED0005	16-APR-84	5.0	3.5	2.9	0.140	0.16	0.02	5.7		0.02		2.8
00NS01ED0005	16-APR-84	4.8	3.5	3.1	0.160	0.17	0.02	5.9		0.01		2.9
00NS01ED0005	16-APR-84	4.9	4.5	5.4	0.140	0.14	0.02	5.7		0.54		2.8
00NS01EE0014	23-APR-84	3.0	4.1	2.6	0.130	0.11	0.01	10.0		0.01		4.3
00NS01EE0014	23-APR-84	3.0	4.1	2.6	0.150	0.12	0.01	9.9		0.01		4.3
00NS01EE0014	23-APR-84	3.0	4.1	2.6	0.160	0.11	0.01	9.3		0.01		4.3
00NS01ED0030	30-APR-84	4.2	4.0	3.0	0.120	0.38	0.03	5.6		0.01		3.8
00NS01ED0030	30-APR-84	4.2	4.0	3.0	0.110	0.36	0.03	6.2		0.01		3.8
00NS01ED0030	30-APR-84	4.3	4.0	3.0	0.130	0.36	0.03	5.8		0.01		3.8
00NS01EE0015	07-MAY-84	6.0	2.5	3.2	0.081	0.13	0.03	5.2		0.01		1.1
00NS01EE0015	07-MAY-84	6.0	2.5	3.5	0.089	0.13	0.03	5.1		0.09		1.1
00NS01EE0015	07-MAY-84	6.1	2.5	2.9	0.081	0.13	0.03	5.5		0.01		1.1
00NS01ED0005	14-MAY-84	4.7	2.8	2.3	0.160	0.16	0.02	7.6	14	0.01	0.11	2.3
00NS01ED0005	14-MAY-84	4.5	2.5	2.3	0.160	0.16	0.02	8.0	14	0.01	0.09	2.3
00NS01ED0005	14-MAY-84	4.4	2.5	2.5	0.170	0.16	0.03	7.7	16	0.01	0.08	2.3
00NS01EE0014	21-MAY-84	2.8	4.5	2.1	0.180	0.15	0.01	14.0	18	0.01	0.08	4.9
00NS01EE0014	21-MAY-84	2.8	4.5	2.1	0.170	0.15	0.01	13.0	17	0.01	0.07	4.9
00NS01EE0014	21-MAY-84	2.7	4.5	2.1	0.170	0.15	0.01	13.0	19	0.01	0.05	4.9
00NS01ED0027	23-MAY-84	2.9	3.3	1.5	0.180	0.13	0.01	12.0	17	0.01	0.08	3.4
00NS01ED0027	23-MAY-84	2.9	3.3	1.5	0.160	0.12	0.01	12.0	17	0.01	0.08	3.6
00NS01ED0027	23-MAY-84	3.0	3.6	1.0	0.140	0.10	0.01	12.0	16	0.01	0.07	4.1
00NS01ED0030	28-MAY-84	4.2	4.5	2.1	0.150	0.76	0.03	10.0	18	0.01	0.09	4.9
00NS01ED0030	28-MAY-84	4.3	4.3	2.1	0.140	0.80	0.03	10.0	20	0.01	0.10	5.0
00NS01ED0030	28-MAY-84	4.3	4.3	2.5	0.130	0.76	0.03	9.7	19	0.01	0.08	5.1
00NS01EE0015	04-JUN-84	5.7	3.0	1.8	0.110	0.25	0.05	7.5	14	0.01	0.08	1.3
00NS01EE0015	04-JUN-84	5.8	3.0	1.8	0.110	0.26	0.05	7.3	16	0.01	0.09	1.3
00NS01EE0015	04-JUN-84	5.7	3.0	1.8	0.100	0.25	0.05	7.3	14	0.01	0.10	1.3
00NS01ED0005	11-JUN-84	4.5	3.8	2.0	0.140	0.22	0.02	12.0	15	0.01	0.09	1.9
00NS01ED0005	11-JUN-84	4.4	3.7	2.6	0.170	0.23	0.02	13.0	15	0.01	0.07	1.9
00NS01ED0005	11-JUN-84	4.4	3.7	2.0	0.150	0.23	0.03	12.0	15	0.01	0.09	1.6
00NS01EE0014	18-JUN-84	3.5	4.9	1.4	0.210	0.31	0.01	19.0	22	0.01	0.09	5.5
00NS01EE0014	18-JUN-84	3.5	4.9	1.4	0.220	0.31	0.01	19.0	22	0.01	0.09	5.5
00NS01EE0014	18-JUN-84	3.4	4.7	1.6	0.230	0.31	0.01	19.0	23	0.01	0.09	5.5
00NS01ED0030	25-JUN-84	5.4	4.1	1.9	0.120	1.30	0.03	11.0	22	0.01	0.12	5.7

TABLE 4. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE KEJIMKUJIK CALIBRATED BASIN PROGRAM

	SDATE	CL DISS.	SO4DISS. MTB	SO4DISS. IC	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	SIO2
00NS01ED0030	25-JUN-84	5.4	4.2	1.9	0.140	1.40	0.03	11.0	21	0.02	0.13	5.8
00NS01ED0030	25-JUN-84	5.3	5.0	3.4	0.160	1.30	0.03	11.0	19	0.18	0.26	5.6
00NS01ED0018	27-JUN-84	3.6	5.0	1.3	0.280	0.49	0.01	20.0	25	0.01	0.09	3.8
00NS01ED0018	27-JUN-84	3.5	5.0	1.3	0.260	0.41	0.02	19.0	25	0.01	0.12	3.9
00NS01ED0018	27-JUN-84	3.6	5.0	1.3	0.300	0.55	0.02	18.0	25	0.01	0.10	3.7
00NS01EE0015	02-JUL-84	5.8	2.2	1.3	0.100	0.50	0.08	9.7	20	0.01	0.15	1.5
00NS01EE0015	02-JUL-84	5.8	2.2	1.3	0.080	0.52	0.09	10.0	20	0.01	0.16	1.5
00NS01EE0015	02-JUL-84	5.8	2.2	1.3	0.080	0.53	0.09	9.3	20	0.01	0.15	1.5
00NS01ED0005	09-JUL-84	4.2	3.8	2.0	0.240	0.35	0.02	13.0	22	0.01	0.08	2.5
00NS01ED0005	09-JUL-84	4.3	3.8	2.3	0.240	0.35	0.02	12.0	22	0.02	0.10	2.4
00NS01ED0005	09-JUL-84	4.7	3.8	2.0	0.240	0.32	0.02	13.0	23	0.02	0.08	2.4
00NS01EE0014	19-JUL-84	4.1	5.9	1.0	0.320	0.50	0.01	25.0	38	0.01	0.09	6.3
00NS01EE0014	19-JUL-84	4.1	5.9	1.0	0.310	0.48	0.01	26.0	31	0.01	0.16	6.3
00NS01EE0014	19-JUL-84	4.1	5.9	1.0	0.320	0.48	0.01	26.0	39	0.01	0.17	6.4
00NS01ED0030	23-JUL-84	5.5	4.8	1.5	0.190	2.10	0.05	19.0	32	0.08	0.25	6.2
00NS01ED0030	23-JUL-84	5.5	5.0	1.3	0.200	2.10	0.05	15.0	28	0.09	0.28	8.0
00NS01ED0030	23-JUL-84	5.4	5.0	1.3	0.190	2.00	0.05	14.0	30	0.05	0.22	7.8
00NS01ED0019	27-JUL-84	4.5	4.1	1.3	0.310	0.50	0.03	16.0	22	0.01	0.13	1.8
00NS01ED0019	27-JUL-84	4.5	4.0	1.3	0.320	0.37	0.04	15.0	24	0.01	0.17	1.6
00NS01ED0019	27-JUL-84	4.5	4.1	1.6	0.310	0.50	0.01	15.0	25	0.02	0.13	1.7
00NS01EE0015	30-JUL-84	6.2	2.1	1.0				9.4	17	0.09	0.13	1.9
00NS01EE0015	30-JUL-84	6.1	2.5	1.0				9.3	16	0.09	0.16	2.0
00NS01EE0015	30-JUL-84	6.0	2.1	1.0				9.4	23	0.10	0.19	1.8
00NS01ED0005	06-AUG-84	5.2	3.1	2.2	0.170	0.21	0.01	10.0	22	0.01	0.10	0.2
00NS01ED0005	06-AUG-84	5.3	3.2	2.2	0.150	0.21	0.01	10.0	20	0.01	0.11	0.2
00NS01ED0005	06-AUG-84	5.2	3.1	2.3	0.170	0.20	0.01	9.4	18	0.01	0.11	0.2
00NS01EB0007	09-AUG-84	5.7	4.0	2.0	0.180			16.0	21	0.01	0.12	1.5
00NS01EB0007	09-AUG-84	6.0	4.2	2.0	0.180			15.0	28	0.01	0.11	1.5
00NS01EB0007	09-AUG-84	5.9	4.0	2.0	0.160			15.0	25	0.01	0.11	1.5
00NS01EC0005	09-AUG-84	4.9	4.5	1.5	0.270			19.0	17	0.01	0.11	0.7
00NS01EC0005	09-AUG-84	4.9	4.5	1.5	0.280			19.0	37	0.01	0.12	0.7
00NS01EC0005	09-AUG-84	4.9	4.2	1.5	0.270			21.0	36	0.01	0.11	0.7
00NS01ED0030	20-AUG-84	5.9	5.6	1.6	0.200	2.00	0.05	22.0	41	0.01	0.23	7.3
00NS01ED0030	20-AUG-84	5.8	5.2	1.6	0.200	2.00	0.05	22.0	45	0.01	0.21	7.3
00NS01ED0030	20-AUG-84	5.9	5.6	1.6	0.200	2.00	0.05	23.0	45	0.05	0.25	7.4
00NS01EE0015	27-AUG-84	8.1	2.1	1.4	0.078	0.57	0.05	8.4	20	0.05	0.23	5.4
00NS01EE0015	27-AUG-84	8.1	2.1	1.2	0.066	0.56	0.05	8.2	20	0.05	0.37	5.4
00NS01EE0015	27-AUG-84	8.1	2.1	1.4	0.066	0.57	0.05	8.4	20	0.06	0.10	5.5
00NS01ED0005	03-SEP-84	4.7	3.0	2.1	0.180	0.27	0.02	9.7	17	0.01	0.13	1.6
00NS01ED0005	03-SEP-84	4.7	3.2	2.3	0.190	0.27	0.02	9.4	18	0.01	0.13	1.6

TABLE 4. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE KEJIMKUJIK CALIBRATED BASIN PROGRAM

	SDATE	CL DISS.	SO4DISS. MTB	SO4DISS. IC	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	SIO2
00NS01ED0005	03-SEP-84	4.8	3.0	2.6	0.190	0.27	0.02	9.7	17	0.01	0.14	1.6
00NS01EE0014	10-SEP-84	5.1	5.5	1.0	0.280	0.56	0.04	30.0	38	0.01	0.14	7.7
00NS01EE0014	10-SEP-84	5.1	5.7	1.0	0.290	0.55	0.04	30.0	38	0.01	0.11	7.7
00NS01EE0014	10-SEP-84	5.0	5.1	1.0	0.300	0.56	0.04	28.0	34	0.01	0.13	7.7
00NS01ED0030	17-SEP-84	4.7	6.0	2.8				24.0	40	0.01	0.19	6.3
00NS01ED0030	17-SEP-84	4.6	5.8	2.6				26.0	40	0.01	0.18	6.4
00NS01ED0030	17-SEP-84	4.7	5.8	2.8				26.0	44	0.01	0.18	6.5
00NS01EE0015	24-SEP-84	6.0	2.5	1.7	0.056	0.25	0.04	7.4	13	0.02	0.16	2.3
00NS01EE0015	24-SEP-84	6.2	2.7	2.0	0.058	0.25	0.04	7.4	13	0.02	0.16	2.3
00NS01EE0015	24-SEP-84	6.2	2.5	1.5	0.062	0.25	0.04	7.8	15	0.02	0.16	2.3
00NS01ED0005	01-OCT-84	4.6	3.7	2.2	0.230	0.27	0.02	12.0	22	0.01	0.14	1.7
00NS01ED0005	01-OCT-84	4.6	3.7	2.2	0.220	0.29	0.02	11.0	22	0.01	0.13	1.7
00NS01ED0005	01-OCT-84	4.8	3.7	1.9	0.210	0.29	0.02	12.0	23	0.01	0.13	2.2
00NS01EE0014	08-OCT-84	4.9	3.5	1.0	0.270	0.55	0.03	27.0	31	0.01	0.14	9.1
00NS01EE0014	08-OCT-84	5.1	5.5	1.0	0.290	0.56	0.04	24.0	31	0.01	0.10	8.6
00NS01EE0014	08-OCT-84	4.9	5.5	1.0	0.280	0.56	0.04	24.0	30	0.01	0.10	8.6
00NS01ED0005	29-OCT-84	5.3	3.5	2.1				11.0	20	0.01	0.19	2.0
00NS01ED0005	29-OCT-84	5.0	3.5	2.1				11.0	20	0.01	0.19	2.0
00NS01ED0005	29-OCT-84	5.2	3.5	2.1	0.200	0.29	0.02	10.0	20	0.01	0.19	2.0

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.
00NB01AQ0001	16-APR-84	5.3	21	1.2		0.3	25	1.00	0.32
00NB01AQ0001	16-APR-84	5.2	21	1.4		0.3	30	0.98	0.32
00NB01AQ0001	16-APR-84	5.4	21	1.2		0.4	30	0.97	0.30
00NF02YJ0001	18-APR-84	7.1	101	0.6	39.5		30	14.00	2.50
00NF02YJ0001	18-APR-84	7.0	102	0.5	39.8		30	14.00	2.50
00NF02YJ0001	18-APR-84	7.0	100	0.6	39.4		30	14.00	2.50
00NS01EN0002	18-APR-84	4.8	23	0.8		-0.6	60	0.42	0.33
00NS01EN0002	18-APR-84	4.8	23	0.7		-0.5	60	0.47	0.29
00NS01EN0002	18-APR-84	4.8	22	0.8		-0.5	60	0.43	0.31
00NS01DE0001	19-APR-84	5.0	27	1.2		0.4	50	0.89	0.39
00NS01DE0001	19-APR-84	5.2	27	1.4		0.4	40	0.89	0.36
00NS01DE0001	19-APR-84	5.2	27	1.3		0.3	40	0.88	0.36
00NB01BQ0044	02-MAY-84	6.3	35	3.1	3.6		55	4.00	0.59
00NB01BQ0044	02-MAY-84	6.2	35	2.8	3.3		50	4.10	0.54
00NB01BQ0044	02-MAY-84	6.3	35	2.4	3.5		45	4.10	0.54
00NF02YD0001	10-MAY-84	6.3	19	0.5	4.0		45	2.00	0.34
00NF02YD0001	10-MAY-84	6.3	19	0.6	3.2		40	1.90	0.32
00NF02YD0001	10-MAY-84	6.3	20	0.4	3.2		40	2.00	0.32
00NS01DN0001	10-MAY-84	6.3	30	0.6	3.7		20	1.90	0.54
00NS01DN0001	10-MAY-84	6.4	30	0.9	3.7		20	1.90	0.54
00NS01DN0001	10-MAY-84								
00NB01BV0015	15-MAY-84	6.2	23	0.4	2.5		25	2.00	0.42
00NB01BV0015	15-MAY-84	6.2	23	0.3	2.5		20	2.00	0.40
00NB01BV0015	15-MAY-84	6.2	23	0.4	2.5		20	1.90	0.42
00NB01AR0001	16-MAY-84	6.3	38	0.9	6.2		40	2.80	0.53
00NB01AR0001	16-MAY-84	6.4	37	0.8	6.3		40	2.75	0.57
00NB01AR0001	16-MAY-84	6.4	37	0.9	6.0		40	2.75	0.56
00NS01FB0001	17-MAY-84	6.5	112	0.3	8.3		20	7.70	1.06
00NS01FB0001	17-MAY-84	6.5	113	0.3	8.3		20	7.70	1.03
00NS01FB0001	17-MAY-84	6.5	112	0.3	8.2		20	7.70	1.03
00NS01DC0001	18-MAY-84	6.2	80	1.0	11.8		70	7.10	1.40
00NS01DC0001	18-MAY-84	6.5	79	0.9	12.0		70	7.10	1.40
00NS01DC0001	18-MAY-84	6.4	79	1.2	11.9		70	7.10	1.40
00NF02ZH0001	24-MAY-84	6.1	18	0.5	2.0	2.0	45	1.10	0.30
00NF02ZH0001	24-MAY-84	6.1	18	0.5	2.0		45	1.10	0.28
00NF02ZH0001	24-MAY-84	6.2	18	0.5	2.1		45	0.90	0.34
00PE01CB0001	12-JUN-84	7.1	196	2.1	63.8		5	25.00	5.00
00PE01CB0001	12-JUN-84	7.0	195	2.0	63.2		5	25.00	4.60
00PE01CB0001	12-JUN-84	7.1	196	1.6	63.2		5	25.00	4.80
00NB01AM0001	15-JUN-84	6.3	21	0.7	3.8		80	2.40	0.47

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.
00NB01AM0001	15-JUN-84	6.3	25	0.9	3.7		100	2.40	0.47
00NB01AM0001	15-JUN-84	6.1	26	0.8	3.7		90	2.40	0.47
00NS01ED0001	18-JUN-84	6.2	30	0.6	3.1		20	2.35	0.60
00NS01ED0001	18-JUN-84	6.2	30	0.6	3.3		20	2.40	0.60
00NS01ED0001	18-JUN-84	6.2	30	0.6	3.0		20	2.35	0.60
00NF02YM0001	19-JUN-84	6.4	34	0.4	7.7		50	2.60	1.05
00NF02YM0001	19-JUN-84	6.4	34	0.5	7.2		50	2.60	1.05
00NF02YM0001	19-JUN-84	6.5	34	0.5	7.3		50	2.80	1.02
00NF02ZK0001	20-JUN-84	6.4	38	0.3	3.5		40	1.60	0.75
00NF02ZK0001	20-JUN-84	6.5	38	0.4	3.7		45	1.50	0.75
00NF02ZK0001	20-JUN-84	6.5	39	0.4	4.0		55	1.60	0.75
00NS01EE0015	21-JUN-84	5.9	29	0.5			70	1.00	0.55
00NS01EE0015	21-JUN-84	5.9	29	0.5		2.0	70	1.00	0.57
00NS01EE0015	21-JUN-84	5.8	29	0.5		1.9	70	1.00	0.57
00NF02YC0001	28-JUN-84	7.0	33	0.3	8.2		30	3.00	1.20
00NF02YC0001	28-JUN-84	7.0	23	0.2	8.9		40	3.00	1.20
00NF02YC0001	28-JUN-84	7.0	34	0.2	9.0		35	3.00	1.20
00NB01BK0026	05-JUL-84	7.3	36	0.3	11.3		15	4.10	0.81
00NB01BK0026	05-JUL-84	6.6	27	0.4	4.4		10	2.40	0.78
00NB01BK0026	05-JUL-84	7.3	35	0.3	11.0		20	4.10	0.85
00NB01AN0001	06-JUL-84	5.7	28	0.7		3.5		3.00	0.49
00NB01AN0001	06-JUL-84	6.1	26	1.3	3.4		150	2.90	0.49
00NB01AN0001	06-JUL-84	6.2	26	1.2	3.2		175	2.90	0.49
00NF02ZB0001	06-JUL-84	6.4	24	0.4	1.9		30	1.30	0.40
00NF02ZB0001	06-JUL-84	6.3	24	0.3	1.8		35	1.30	0.40
00NF02ZB0001	06-JUL-84	6.4	24	0.3	1.8		35	1.30	0.40
00NS01DG0008	12-JUL-84	6.1	76	1.2	2.5		10	4.60	0.74
00NS01DG0008	12-JUL-84	6.2	76	1.4	2.3		10	4.60	0.74
00NS01DG0008	12-JUL-84	6.2	76	0.7	2.2		15	4.60	0.74
00NF02ZD0003	15-JUL-84	6.2	18	0.4	1.6		40	1.00	0.27
00NF02ZD0003	15-JUL-84	6.2	18	0.5	1.6		45	1.10	0.26
00NF02ZD0003	15-JUL-84	6.4	18	0.4	2.4		40	1.20	0.27
00NS01EE0001	16-JUL-84	5.6	26	0.6		0.8	45	0.82	0.44
00NS01EE0001	16-JUL-84	5.5	26	0.5		0.7	40	0.83	0.44
00NS01EE0001	16-JUL-84	5.5	26	0.5		0.8	40	0.82	0.44
00NS01DL0009	17-JUL-84	6.0	23	0.6		2.1	100	0.73	0.40
00NS01DL0009	17-JUL-84	6.1	22	0.5	1.8		100	0.73	0.40
00NS01DL0009	17-JUL-84	6.0	22	0.6		2.1	100	0.73	0.40
00NS01EA0001	17-JUL-84	4.6	34	0.8		-0.7	140	0.63	0.46
00NS01EA0001	17-JUL-84	4.6	33	0.9		-0.6	160	0.63	0.46

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.
00NS01EA0001	17-JUL-84	4.6	33	1.0		-0.7	140	0.62	0.46
00NB01AP0002	18-JUL-84	7.4	148	2.3	26.9		15	14.00	1.50
00NB01AP0002	18-JUL-84	7.5	145	2.3	27.4		15	14.00	1.50
00NB01AP0002	18-JUL-84	7.2	145	2.0	27.2		10	14.00	1.50
01NB01AF0005	19-JUL-84	7.0	54	5.2	17.1		90	8.80	1.10
01NB01AF0005	19-JUL-84	7.1	54	4.8	16.9		90	8.80	1.10
01NB01AF0005	19-JUL-84	7.0	54	6.6	17.0		90	9.40	1.10
00NS01FJ0001	24-JUL-84	6.6	58	0.9	5.4		40	4.50	1.00
00NS01FJ0001	24-JUL-84	6.6	57	0.8	5.3		40	4.50	1.00
00NS01FJ0001	24-JUL-84	6.8	57	0.7	5.5		40	4.50	1.00
00PE01CD0003	25-JUL-84	7.7	181	0.4	73.3		10	17.00	9.30
00PE01CD0003	25-JUL-84	8.1	180	0.6	72.6		10	17.00	9.10
00PE01CD0003	25-JUL-84	7.6	180	0.5	73.6		5	17.00	9.10
00NF02YJ0001	02-AUG-84	8.1	174	0.3	74.1		5	25.00	4.50
00NF02YJ0001	02-AUG-84	8.1	175	0.2	74.7		5	25.00	4.50
00NF02YJ0001	02-AUG-84	8.1	174	0.2	73.8		5	25.00	4.50
00NS01DA0001	08-AUG-84	5.9	41	0.7		1.9	110	1.40	0.86
00NS01DA0001	08-AUG-84	6.0	41	1.1		1.9	110	1.40	0.86
00NS01DA0001	08-AUG-84	5.9	41	0.8		1.9	100	1.40	0.82
00NS01EF0002	09-AUG-84	6.0	28	0.4		1.7	50	1.40	0.54
00NS01EF0002	09-AUG-84	6.0	28	0.5		1.8	55	1.30	0.54
00NS01EF0002	09-AUG-84	6.0	28	0.4		1.7	50	1.30	0.54
00NF02ZG0016	15-AUG-84	6.6	38	0.6	3.7		35	2.00	0.57
00NF02ZG0016	15-AUG-84	6.5	38	0.5	3.8		35	1.90	0.57
00NF02ZG0016	15-AUG-84	6.6	38	0.8	3.6		40	2.00	0.57
00NB01AQ0001	16-AUG-84	6.4	24	1.0	2.1		30	1.50	0.37
00NB01AQ0001	16-AUG-84	6.2	25	0.9	2.2		25	1.60	0.37
00NB01AQ0001	16-AUG-84	6.5	25	0.9	2.7		30	1.60	0.36
00NS01EC0005	10-SEP-84	4.5	33	0.7		-1.2	140	0.51	0.38
00NS01EC0005	10-SEP-84	4.5	33	0.6		-1.2	140	0.52	0.38
00NS01EC0005	10-SEP-84	4.8	32	0.8		-0.2	140	0.52	0.38
00NS01DN0001	12-SEP-84	7.1	53	1.3	10.1		15	3.70	0.84
00NS01DN0001	12-SEP-84	7.3	52	1.4	10.2		20	3.70	0.84
00NS01DN0001	12-SEP-84	7.3	51	1.4	10.1		15	3.70	0.86
00NS01DE0001	13-SEP-84	5.8	26	1.1		0.8	20	0.80	0.38
00NS01DE0001	13-SEP-84	5.7	26	1.1		0.5	25	0.81	0.35
00NS01DE0001	13-SEP-84	5.7	26	1.2		0.5	30	0.78	0.35
00NB01AJ0029	17-SEP-84	8.5	214	0.3	88.1		5	35.00	3.20
00NB01AJ0029	17-SEP-84	8.4	213	0.3	89.0		5	35.00	3.20
00NB01AJ0029	17-SEP-84	8.1	214	0.3	88.2		5	35.00	3.20

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS
INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.
00NB01BU0031	17-SEP-84	7.7	396	3.8	40.9		60	35.00	4.50
00NB01BU0031	17-SEP-84	7.7	398	3.8	41.4		60	35.00	4.50
00NB01BU0031	17-SEP-84	7.7	394	3.8	41.0		60	35.00	4.50
00PE01CA0001	17-SEP-84	7.9	207	1.6	78.5		15	23.00	8.60
00PE01CA0001	17-SEP-84	8.0	208	1.9	79.7		20	23.00	8.70
00PE01CA0001	17-SEP-84	7.9	207	1.1	80.1		10	23.00	8.60
00NS01FB0001	19-SEP-84	7.2	132	0.2	10.0		15	9.50	1.20
00NS01FB0001	19-SEP-84	7.1	132	0.2	9.9		15	9.50	1.20
00NS01FB0001	19-SEP-84	7.0	132	0.2	10.0		15	9.50	1.20
00NS01EN0002	20-SEP-84	5.1	26	0.8		0.2	90	0.98	0.46
00NS01EN0002	20-SEP-84	5.1	26	0.7		0.3	90	0.95	0.45
00NS01EN0002	20-SEP-84	5.1	26	0.7		0.2	90	0.95	0.45
00NS01ER0001	09-OCT-84	6.7	44	0.6	4.4		30	2.70	1.00
00NS01ER0001	09-OCT-84	6.6	44	0.6	4.5		30	2.60	1.10
00NS01ER0001	09-OCT-84	6.6	44	0.8	4.6		30	2.70	1.10
00NS01ED0030	10-OCT-84	5.5	33	1.3		1.5	120	1.20	0.73
00NS01ED0030	10-OCT-84	5.5	33	1.2		1.5	100	1.20	0.73
00NS01ED0030	10-OCT-84	5.5	33	1.2		1.4	120	1.20	0.73
00NF02ZC0001	11-OCT-84	6.1	19	0.3	1.3		35	1.10	0.31
00NF02ZC0001	11-OCT-84	5.9	19	0.3		1.3	35	1.10	0.31
00NF02ZC0001	11-OCT-84	6.0	19	0.4		1.3	30	0.14	0.32
00NF02ZK0001	11-OCT-84	6.5	39	0.7	3.8		120	1.80	0.86
00NF02ZK0001	11-OCT-84	6.6	39	0.9	3.9		110	1.70	0.83
00NF02ZK0001	11-OCT-84	6.6	39	0.7	3.9		120	1.80	0.85
00PE01CB0001	11-OCT-84	8.1	208	1.3	70.7		10	27.00	5.40
00PE01CB0001	11-OCT-84	8.2	207	2.0	71.5		20	27.00	5.40
00PE01CB0001	11-OCT-84	8.1	207	1.7	70.5		10	27.00	5.40
00NS01DG0008	06-NOV-84	6.3	147	1.3	3.2		10	11.00	1.80
00NS01DG0008	06-NOV-84	6.3	149	1.5	3.0		10	11.00	1.80
00NS01DG0008	06-NOV-84	6.3	147	1.5	3.2		10	11.00	1.80
00NS01DL0009	07-NOV-84	6.4	29	0.4	2.1		35	1.10	0.60
00NS01DL0009	07-NOV-84	6.4	29	0.4	2.0		40	1.00	0.61
00NS01DL0009	07-NOV-84	6.4	29	0.4	2.1		40	1.00	0.63
00NB01BJ0056	13-NOV-84	7.8	147	2.1	63.5		10	24.00	3.00
00NB01BJ0056	13-NOV-84	7.8	147	2.3	62.5		10	23.00	3.00
00NB01BJ0056	13-NOV-84	7.8	147	2.3	63.2		10	24.00	3.00
00PE01CD0003	13-NOV-84	7.7	175	0.5	67.4		10	17.00	8.50
00PE01CD0003	13-NOV-84	7.9	178	0.6	67.1		10	17.00	8.50
00PE01CD0003	13-NOV-84	7.7	175	0.6	66.8		15	17.00	8.60

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PH	SPEC. COND.	TURBID.	ALK.TOT.	ALK.GRAN	APPARENT COLOUR	CA DISS.	MG DISS.
00NB01AP0002	20-NOV-84	6.9	244	1.1	33.4		10	21.00	2.20
00NB01AP0002	20-NOV-84	7.0	243	1.2	34.3		10	22.00	2.20
00NB01AP0002	20-NOV-84	7.1	244	1.2	33.5		10	22.00	2.20
00NS01FJ0001	20-NOV-84								
00NS01FJ0001	20-NOV-84								
00NS01FJ0001	20-NOV-84								
01NB01AF0005	20-NOV-84	7.0	67	1.3	17.4		60	9.70	1.50
01NB01AF0005	20-NOV-84	7.1	67	1.2	17.1		65	9.70	1.50
01NB01AF0005	20-NOV-84								
00NF02ZC0001	27-NOV-84	6.5	22	0.2	2.9		10	1.40	0.39
00NF02ZC0001	27-NOV-84	6.4	22	0.2	2.8		10	1.40	0.40
00NF02ZC0001	27-NOV-84	6.4	22	0.2	2.7		10	1.40	0.38

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	K DISS.	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.
00NB01AQ0001	16-APR-84	0.40	1.7	2.2	3.5			0.002	0.040	0.001
00NB01AQ0001	16-APR-84	0.40	1.7	2.1	3.4			0.002	0.010	0.001
00NB01AQ0001	16-APR-84	0.40	1.7	2.2	3.4			0.002	0.010	0.001
00NF02YJ0001	18-APR-84	0.20	2.7	4.6	2.5			0.002	0.010	0.001
00NF02YJ0001	18-APR-84	0.20	2.6	4.6	2.5			0.002	0.010	0.001
00NF02YJ0001	18-APR-84	0.30	2.8	4.6	2.5			0.002	0.010	0.001
00NS01EN0002	18-APR-84	0.20	2.0	2.8	2.5	2.1		0.002	0.010	0.001
00NS01EN0002	18-APR-84	0.20	2.0	2.9	3.0	2.1		0.002	0.010	0.001
00NS01EN0002	18-APR-84	0.20	2.0	2.8	2.5	1.8		0.002	0.010	0.001
00NS01DE0001	19-APR-84	0.30	2.3	4.3	3.3	2.6		0.002	0.010	0.001
00NS01DE0001	19-APR-84	0.30	2.4	4.5	3.0	2.6		0.002	0.010	0.001
00NS01DE0001	19-APR-84	0.30	2.4	4.4	3.3	2.6		0.002	0.010	0.001
00NB01BQ0044	02-MAY-84	0.40	1.0	0.9	5.4	8.0	0.020	0.008	0.100	0.001
00NB01BQ0044	02-MAY-84	0.40	1.0	1.0	5.4	8.3	0.035	0.007	0.100	0.001
00NB01BQ0044	02-MAY-84	0.40	1.0	0.9	5.4	8.3	0.030	0.008	0.100	0.001
00NF02YD0001	10-MAY-84	0.10	1.0	1.6	2.0	2.0	0.002	0.002	0.014	0.001
00NF02YD0001	10-MAY-84	0.20	1.1	1.6	2.5	2.0	0.003	0.002	0.012	0.001
00NF02YD0001	10-MAY-84	0.20	1.1	1.5	2.5	2.0	0.003	0.002	0.015	0.001
00NS01DN0001	10-MAY-84	0.20	2.6	3.7	2.5		0.006	0.002	0.010	0.001
00NS01DN0001	10-MAY-84	0.20	2.6	3.8	2.5			0.002	0.010	0.001
00NS01DN0001	10-MAY-84									
00NB01BV0015	15-MAY-84	0.20	1.3	1.8	3.5		0.002	0.005	0.010	0.001
00NB01BV0015	15-MAY-84	0.20	1.2	1.9	3.7		0.002	0.002	0.010	0.001
00NB01BV0015	15-MAY-84	0.20	1.3	1.8	3.7		0.005	0.002	0.010	0.001
00NB01AR0001	16-MAY-84	0.40	3.0	3.4	4.2	4.0	0.016	0.002	0.010	0.001
00NB01AR0001	16-MAY-84	0.40	3.2	3.4	4.4	4.0	0.014	0.002	0.010	0.001
00NB01AR0001	16-MAY-84	0.40	3.2	3.5	4.2	4.0	0.022	0.002		0.001
00NS01FB0001	17-MAY-84	0.40	10.0	17.0	2.5		0.006	0.002	0.010	0.001
00NS01FB0001	17-MAY-84	0.40	10.4	17.0	6.0		0.004	0.002	0.010	0.001
00NS01FB0001	17-MAY-84	0.40	9.8	17.0	1.8		0.005	0.019	0.010	0.001
00NS01DC0001	18-MAY-84	0.70	5.7	9.7	6.8	7.5	0.035	0.002	0.010	0.001
00NS01DC0001	18-MAY-84	0.70	5.6	9.7	7.0	7.2	0.036	0.002	0.010	0.001
00NS01DC0001	18-MAY-84	0.60	5.0	9.6	6.8	7.5		0.003	0.010	0.001
00NF02ZH0001	24-MAY-84	0.20	1.4	2.6	1.8	1.0	0.006	0.002	0.010	0.001
00NF02ZH0001	24-MAY-84	0.20	1.3	2.5	1.8	1.0	0.004	0.002	0.010	0.001
00NF02ZH0001	24-MAY-84	0.20	1.4	2.5	2.5	1.0	0.005	0.002	0.010	0.001
00PE01CB0001	12-JUN-84	1.10	5.8	10.2	6.7		0.100	0.003	0.010	0.001
00PE01CB0001	12-JUN-84	1.00	5.1	10.2	6.7		0.063	0.003	0.010	0.001
00PE01CB0001	12-JUN-84	0.90	4.9	10.1	6.7		0.090	0.002	0.010	0.001
00NB01AM0001	15-JUN-84	0.25	1.9	2.4	3.5	2.4		0.002	0.010	0.001

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	K DISS.	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.
00NB01AM0001	15-JUN-84	0.25	1.9	2.3	3.3	2.4		0.002	0.010	0.001
00NB01AM0001	15-JUN-84	0.25	1.9	2.4	3.5	2.4		0.002	0.010	0.001
00NS01ED0001	18-JUN-84	0.20	2.6	4.4	2.7		0.005	0.002	0.010	0.001
00NS01ED0001	18-JUN-84	0.20	2.6	4.5	2.7		0.005	0.020	0.010	0.001
00NS01ED0001	18-JUN-84	0.20	2.6	4.6	2.7		0.007	0.003	0.010	0.001
00NF02YM0001	19-JUN-84	0.10	2.0	3.7	2.5	1.4	0.004	0.002	0.010	0.001
00NF02YM0001	19-JUN-84	0.10	2.2	3.7	2.3	1.4	0.003	0.003	0.010	0.001
00NF02YM0001	19-JUN-84	0.10	2.1	3.6	2.2	1.4	0.004	0.002	0.010	0.001
00NF02ZK0001	20-JUN-84	0.25	4.8	6.5	2.5	1.6		0.002	0.010	0.001
00NF02ZK0001	20-JUN-84	0.20	4.6	6.6	2.5	1.9		0.002	0.010	0.001
00NF02ZK0001	20-JUN-84	0.25	4.8	6.5	2.5	2.1		0.002	0.010	0.001
00NS01EE0015	21-JUN-84	0.20	3.7	4.9	2.6	1.5		0.002	0.010	0.001
00NS01EE0015	21-JUN-84	0.20	3.6	4.7	2.7	1.9		0.002	0.010	0.001
00NS01EE0015	21-JUN-84	0.20	3.6	4.9	2.7	1.5		0.002	0.010	0.001
00NF02YC0001	28-JUN-84	0.20	1.9	2.4	2.5		0.002	0.002	0.010	0.001
00NF02YC0001	28-JUN-84	0.20	1.9	2.3	2.5	1.9	0.003	0.004	0.020	0.001
00NF02YC0001	28-JUN-84	0.20	1.9	2.4	2.5	1.9	0.003	0.002	0.010	0.001
00NB01BK0026	05-JUL-84	0.35	1.4	0.5	3.5			0.005	0.020	0.001
00NB01BK0026	05-JUL-84	0.20	1.1	0.5	5.5			0.003	0.020	0.001
00NB01BK0026	05-JUL-84	0.30	1.4	0.5	3.6			0.003	0.020	0.001
00NB01AN0001	06-JUL-84	0.25	1.5	0.9	5.7	3.8		0.002	0.010	0.001
00NB01AN0001	06-JUL-84	0.25	1.6	0.9	5.4	3.5		0.002	0.010	0.001
00NB01AN0001	06-JUL-84	0.25	1.6	0.9	5.4	3.8		0.002	0.010	0.001
00NF02ZB0001	06-JUL-84	0.20	2.4	2.9	2.9			0.002	0.010	0.001
00NF02ZB0001	06-JUL-84	0.20	2.4	2.9	2.9	2.5		0.002	0.010	0.001
00NF02ZB0001	06-JUL-84	0.20	2.4	2.8	2.9	2.8		0.002	0.010	0.001
00NS01DG0008	12-JUL-84	0.40	7.7	11.5	10.0		0.018	0.003	0.010	0.001
00NS01DG0008	12-JUL-84	0.40	7.7	11.8	10.0		0.018	0.003	0.010	0.001
00NS01DG0008	12-JUL-84	0.40	7.7	11.4	10.0		0.019	0.002	0.010	0.001
00NF02ZD0003	15-JUL-84	0.10	1.7	1.7	2.0	1.3		0.002	0.010	0.001
00NF02ZD0003	15-JUL-84	0.10	1.7	1.7	2.0	1.3		0.002	0.010	0.001
00NF02ZD0003	15-JUL-84	0.15	1.7	1.8	2.0	1.3		0.002	0.010	0.001
00NS01EE0001	16-JUL-84	0.20	2.9	4.1	3.0	2.5		0.002	0.010	0.001
00NS01EE0001	16-JUL-84	0.30	3.0	4.1	3.0	2.5		0.002	0.010	0.001
00NS01EE0001	16-JUL-84	0.20	2.9	4.1	3.2	2.5		0.002	0.010	0.001
00NS01DL0009	17-JUL-84	0.45	3.1	2.9	3.1	1.0	0.009	0.002	0.010	0.001
00NS01DL0009	17-JUL-84	0.20	2.9	2.9	3.1	1.3	0.009	0.002	0.010	0.001
00NS01DL0009	17-JUL-84	0.20	3.1	2.9	3.1	1.0	0.010	0.002	0.010	0.001
00NS01EA0001	17-JUL-84	0.20	3.4	5.0	4.6	2.5		0.002	0.010	0.001
00NS01EA0001	17-JUL-84	0.20	3.4	4.9	4.5	2.3		0.002	0.010	0.001

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	K DISS.	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.
00NS01EA0001	17-JUL-84	0.20	3.4	4.9	4.2	2.8		0.002	0.010	0.001
00NB01AP0002	18-JUL-84	1.25	11.6	13.5	12.2		0.030	0.002	0.010	0.001
00NB01AP0002	18-JUL-84	1.25	11.6	13.6	12.2		0.029	0.002	0.010	0.001
00NB01AP0002	18-JUL-84	1.25	11.6	13.3	17.7		0.031	0.002	0.010	0.001
01NB01AF0005	19-JUL-84	0.25	1.0	0.7	5.2	4.2	0.031	0.002	0.010	0.001
01NB01AF0005	19-JUL-84	0.30	1.0	0.7	5.0	4.2	0.031	0.002	0.010	0.001
01NB01AF0005	19-JUL-84	0.30	1.1	0.7	5.7	3.2	0.030	0.002	0.010	0.001
00NS01FJ0001	24-JUL-84	0.35	4.2	6.6	6.8	6.4	0.012	0.002	0.010	0.001
00NS01FJ0001	24-JUL-84	0.40	4.3	6.7	7.0	6.8	0.010	0.002	0.010	0.001
00NS01FJ0001	24-JUL-84	0.35	4.3	6.5	7.0	6.8	0.012	0.002	0.010	0.001
00PE01CD0003	25-JUL-84	0.95	5.1	7.3	3.5	3.1	0.050	0.002	0.010	0.001
00PE01CD0003	25-JUL-84	0.95	5.0	7.2	3.5	3.4	0.050	0.002	0.010	0.001
00PE01CD0003	25-JUL-84	0.95	5.3	7.6	3.5	3.1	0.050	0.002	0.010	0.001
00NF02YJ0001	02-AUG-84	0.35	3.6	5.1	3.5		0.001	0.002	0.010	0.001
00NF02YJ0001	02-AUG-84	0.30	3.6	4.9	3.5		0.001	0.002	0.010	0.001
00NF02YJ0001	02-AUG-84	0.35	3.6	4.9	4.5		0.001	0.002	0.010	0.001
00NS01DA0001	08-AUG-84	0.30	4.8	6.9	4.2	2.6	0.013	0.002	0.010	0.001
00NS01DA0001	08-AUG-84	0.35	5.2	6.8	4.2	2.9	0.016	0.002	0.010	0.001
00NS01DA0001	08-AUG-84	0.35	5.3	6.9	4.2	2.6	0.014	0.002	0.010	0.001
00NS01EF0002	09-AUG-84	0.20	2.8	4.0	3.5	2.3	0.006	0.002	0.010	0.001
00NS01EF0002	09-AUG-84	3.00	3.0	3.8	3.2	2.3	0.006	0.002	0.010	0.001
00NS01EF0002	09-AUG-84	0.25	3.1	3.9	3.2	2.6	0.006	0.002	0.010	0.001
00NF02ZG0016	15-AUG-84	0.20	4.3	5.4	2.6	2.1	0.002	0.002	0.010	0.001
00NF02ZG0016	15-AUG-84	0.20	4.0	5.6	2.6	1.5	0.003	0.002	0.010	0.001
00NF02ZG0016	15-AUG-84	0.20	4.4	5.4	2.6	2.1	0.003	0.002	0.010	0.001
00NB01AQ0001	16-AUG-84	0.55	2.2	2.2	3.1		0.003	0.002	0.010	0.001
00NB01AQ0001	16-AUG-84	0.40	2.0	2.3	3.1		0.003	0.002	0.010	0.001
00NB01AQ0001	16-AUG-84	0.40	2.0	2.3	3.1		0.003	0.002	0.010	0.001
00NS01EC0005	10-SEP-84	0.30	3.0	4.6	3.8	2.4	0.005	0.002	0.010	0.001
00NS01EC0005	10-SEP-84	0.25	2.9	4.3	3.8	2.4	0.006	0.002	0.010	0.001
00NS01EC0005	10-SEP-84	0.35	2.9	4.3	3.8	2.4	0.007	0.002	0.010	0.001
00NS01DN0001	12-SEP-84	0.50	4.8	5.2	2.6		0.010	0.002	0.010	0.001
00NS01DN0001	12-SEP-84	0.45	4.7	5.3	2.6		0.009	0.002	0.010	0.001
00NS01DN0001	12-SEP-84	0.45	4.7	5.6	2.6		0.010	0.002	0.010	0.001
00NS01DE0001	13-SEP-84	0.30	2.9	4.1	2.8		0.007	0.002	0.010	0.001
00NS01DE0001	13-SEP-84	0.27	2.7	4.1	3.0		0.001	0.002	0.010	0.001
00NS01DE0001	13-SEP-84	0.27	2.7	4.2	3.0		0.001	0.002	0.010	0.001
00NB01AJ0029	17-SEP-84	0.70	4.4	5.6	7.7		0.004	0.002	0.010	0.001
00NB01AJ0029	17-SEP-84	0.69	4.3	5.4	7.7		0.004	0.002	0.010	0.001
00NB01AJ0029	17-SEP-84	1.22	5.3	5.1	7.7		0.003	0.002	0.010	0.001

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	K DISS.	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.
00NB01BU0031	17-SEP-84	1.32	34.0	42.0	73.0	73.0	0.033	0.002	0.010	0.001
00NB01BU0031	17-SEP-84	1.32	36.0	43.0	32.0	73.0	0.027	0.002	0.010	0.001
00NB01BU0031	17-SEP-84	1.32	37.0	42.0	73.0	73.0	0.025	0.002	0.010	0.001
00PE01CA0001	17-SEP-84	0.95	5.7	7.6	4.2		0.014	0.002	0.010	0.001
00PE01CA0001	17-SEP-84	0.90	5.2	7.7	4.5		0.012	0.002	0.010	0.001
00PE01CA0001	17-SEP-84	1.00	5.3	7.9	4.2		0.013	0.002	0.010	0.001
00NS01FB0001	19-SEP-84	0.50	12.2	17.0	16.8		0.003	0.002	0.010	0.001
00NS01FB0001	19-SEP-84	0.45	12.3	17.0	17.0		0.007	0.002	0.010	0.001
00NS01FB0001	19-SEP-84	0.50	12.5	16.0	16.9		0.003	0.002	0.010	0.001
00NS01EN0002	20-SEP-84	0.10	2.8	3.9	3.5	2.0	0.008	0.002	0.010	0.001
00NS01EN0002	20-SEP-84	0.10	2.8	3.8	3.2	2.4	0.009	0.002	0.010	0.001
00NS01EN0002	20-SEP-84	0.10	2.8	3.9	3.5	2.2	0.008	0.002	0.010	0.001
00NS01ER0001	09-OCT-84	0.20	3.5	5.6	4.0		0.004	0.002	0.010	0.001
00NS01ER0001	09-OCT-84	0.25	3.6	5.6	3.8		0.003	0.002	0.010	0.001
00NS01ER0001	09-OCT-84	0.27	3.6	5.7	3.8		0.003	0.002	0.010	0.001
00NS01ED0030	10-OCT-84	0.27	3.3	4.9	3.5	1.8	0.007	0.002	0.010	0.001
00NS01ED0030	10-OCT-84	0.27	3.3	5.1	3.5	1.8	0.007	0.002	0.010	0.001
00NS01ED0030	10-OCT-84	0.30	3.4	4.9	3.5	8.2	0.007	0.002	0.010	0.001
00NF02ZC0001	11-OCT-84	0.15	1.6	2.4	2.2	1.7	0.002	0.002	0.010	0.001
00NF02ZC0001	11-OCT-84	0.15	1.6	2.4	2.2	1.8	0.001	0.002	0.010	0.001
00NF02ZC0001	11-OCT-84	0.15	1.6	2.4	2.2		0.001	0.002	0.010	0.001
00NF02ZK0001	11-OCT-84	0.27	4.7	6.1	3.0	1.6	0.004	0.002	0.010	0.001
00NF02ZK0001	11-OCT-84	0.27	4.5	6.1	2.9	1.6	0.004	0.002	0.010	0.001
00NF02ZK0001	11-OCT-84	0.27	4.5	6.0	3.1	1.6	0.004	0.002	0.010	0.001
00PE01CB0001	11-OCT-84	1.15	6.2	8.6	7.2		0.029	0.002	0.010	0.001
00PE01CB0001	11-OCT-84	1.15	6.0	8.6	7.1		0.030	0.002	0.010	0.001
00PE01CB0001	11-OCT-84	1.05	5.4	8.7	7.1		0.030	0.002	0.010	0.001
00NS01DG0008	06-NOV-84	0.90	11.4	19.0	29.2		0.029	0.002	0.010	0.001
00NS01DG0008	06-NOV-84	0.92	11.6	19.0	29.5		0.027	0.002	0.010	0.001
00NS01DG0008	06-NOV-84	0.92	11.7	19.0	31.7		0.031	0.002	0.010	0.001
00NS01DL0009	07-NOV-84	0.40	3.1	4.7	2.5	1.9	0.001	0.002	0.010	0.001
00NS01DL0009	07-NOV-84	0.45	3.2	4.6	2.5	1.6	0.001	0.002	0.010	0.001
00NS01DL0009	07-NOV-84	0.45	3.2	4.7	2.2	1.9	0.001	0.002	0.010	0.001
00NB01BJ0056	13-NOV-84	0.45	2.4	1.7	6.6		0.003	0.002	0.010	0.001
00NB01BJ0056	13-NOV-84	0.40	2.3	1.7	6.5		0.001	0.002	0.010	0.001
00NB01BJ0056	13-NOV-84	0.45	2.3	1.8	6.5		0.001	0.002	0.010	0.001
00PE01CD0003	13-NOV-84	1.20	5.1	8.8	3.6		0.030	0.002	0.010	0.001
00PE01CD0003	13-NOV-84	1.20	5.1	8.8	3.7		0.031	0.002	0.010	0.001
00PE01CD0003	13-NOV-84	1.20	5.1	8.5	3.6		0.031	0.002	0.010	0.001

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	K DISS.	NA DISS.	CL DISS.	SO4DISS. MTB	SO4DISS. IC	TOT. P	CU EXTRACT.	ZN EXTRACT.	CD EXTRACT.
00NB01AP0002	20-NOV-84	2.42	20.0	33.0	27.2		0.045	0.002	0.010	0.001
00NB01AP0002	20-NOV-84	2.42	22.0	33.0	26.7		0.047	0.002	0.010	0.001
00NB01AP0002	20-NOV-84	2.42	21.0	34.0	26.7		0.045	0.002	0.010	0.001
00NS01FJ0001	20-NOV-84						0.010	0.002	0.010	0.001
00NS01FJ0001	20-NOV-84						0.010	0.002	0.010	0.001
00NS01FJ0001	20-NOV-84						0.010	0.002	0.010	0.001
01NB01AF0005	20-NOV-84	0.50	1.8	1.7	7.8	7.0	0.012	0.002	0.010	0.001
01NB01AF0005	20-NOV-84	0.50	1.8	1.9	7.5	7.0	0.012	0.002	0.010	0.001
01NB01AF0005	20-NOV-84						0.014	0.002	0.010	0.001
00NF02ZC0001	27-NOV-84	0.25	1.9	2.8	2.0		0.001	0.002	0.010	0.001
00NF02ZC0001	27-NOV-84	0.25	1.9	2.8	2.0		0.001	0.002	0.010	0.001
00NF02ZC0001	27-NOV-84	0.25	1.9	2.8	2.0		0.001	0.002	0.010	0.001

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PB EXTRACT.	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
00NB01AQ0001	16-APR-84	0.002	0.160	0.11	0.04	3.4	8.3	0.05	0.12	0.11	3.0
00NB01AQ0001	16-APR-84	0.002	0.200	0.10	0.04	3.0	8.1	0.05	0.12	0.11	3.0
00NB01AQ0001	16-APR-84	0.002	0.210	0.10	0.03	3.4	8.1	0.05	0.12	0.11	3.0
00NF02YJ0001	18-APR-84	0.002	0.050	0.11	0.01	3.2	6.1	0.09	0.12	0.05	1.5
00NF02YJ0001	18-APR-84	0.002	0.037	0.10	0.01	3.3	6.1	0.11	0.14	0.05	1.5
00NF02YJ0001	18-APR-84	0.002	0.042	0.07	0.02	6.2	6.1	0.09	0.11	0.05	1.5
00NS01EN0002	18-APR-84	0.002	0.097	0.18	0.04	5.4	12.0	0.01	0.07	0.05	1.1
00NS01EN0002	18-APR-84	0.002	0.110	0.18	0.04	5.2	12.0	0.01	0.08	0.05	1.1
00NS01EN0002	18-APR-84	0.002	0.087	0.17	0.04	5.2	12.0	0.01	0.07	0.05	1.1
00NS01DE0001	19-APR-84	0.002	0.180	0.15	0.04	5.3	11.0	0.01	0.09	0.05	2.5
00NS01DE0001	19-APR-84	0.002	0.200	0.15	0.04	4.8	12.0	0.01	0.08	0.05	2.5
00NS01DE0001	19-APR-84	0.002	0.210	0.14	0.04	4.8	12.0	0.01	0.08	0.05	2.5
00NB01BQ0044	02-MAY-84	0.002	0.220	0.24	0.14	4.8	13.0	0.08	0.14	0.05	4.0
00NB01BQ0044	02-MAY-84	0.002	0.250	0.25	0.14	4.7	13.0	0.14	0.17	0.05	4.1
00NB01BQ0044	02-MAY-84	0.002	0.230	0.24	0.14	4.6	13.0	0.06	0.11	0.05	4.1
00NF02YD0001	10-MAY-84	0.003	0.070	0.13	0.01	5.1	11.0	0.04	0.09	0.05	2.6
00NF02YD0001	10-MAY-84	0.003	0.089	0.14	0.02	5.2	12.0	0.06	0.10	0.05	2.6
00NF02YD0001	10-MAY-84	0.002	0.083	0.13	0.02	5.2	12.0	0.06	0.09	0.05	2.6
00NS01DN0001	10-MAY-84	0.002	0.085	0.08	0.02	3.3	7.2	0.03	0.06	0.05	4.2
00NS01DN0001	10-MAY-84	0.002	0.075	0.08	0.02	4.2	6.8	0.03	0.08	0.05	4.2
00NS01DN0001	10-MAY-84										
00NB01BV0015	15-MAY-84	0.002	0.120	0.05	0.01	5.3	7.3	0.13	0.20	0.05	3.0
00NB01BV0015	15-MAY-84	0.002	0.120	0.03	0.01	5.6	7.3	0.14	0.18	0.05	2.9
00NB01BV0015	15-MAY-84	0.002	0.130	0.03	0.01	5.3	7.1	0.14	0.20	0.05	2.9
00NB01AR0001	16-MAY-84	0.002	0.073	0.16	0.03	7.0	10.0	0.07	0.14	0.05	2.1
00NB01AR0001	16-MAY-84	0.002	0.077	0.16	0.03	7.0	11.0	0.01	0.11	0.05	2.2
00NB01AR0001	16-MAY-84	0.002	0.077	0.15	0.03	8.4	10.0	0.09	0.16	0.05	2.2
00NS01FB0001	17-MAY-84	0.002	0.085	0.04	0.01	2.9	4.8	0.39	0.45	0.05	5.7
00NS01FB0001	17-MAY-84	0.002	0.081	0.04	0.01	2.9	4.8	0.39	0.45	0.05	6.1
00NS01FB0001	17-MAY-84	0.002	0.095	0.04	0.01	2.9	4.9	0.38	0.42	0.05	6.1
00NS01DC0001	18-MAY-84	0.002	0.140	0.43	0.05	6.4	14.0	0.31	0.46	0.05	4.5
00NS01DC0001	18-MAY-84	0.002	0.110	0.43	0.05	6.6	15.0	0.19	0.32	0.05	4.5
00NS01DC0001	18-MAY-84	0.002	0.120	0.43	0.04	7.1	14.0	0.32	0.47	0.05	4.3
00NF02ZH0001	24-MAY-84	0.002	0.068	0.16	0.01	4.9	10.0	0.01	0.07	0.05	1.5
00NF02ZH0001	24-MAY-84	0.002	0.070	0.16	0.01	5.6	10.0	0.01	0.05	0.05	1.5
00NF02ZH0001	24-MAY-84	0.002	0.068	0.15	0.01	5.4	11.0	0.02	0.07	0.05	1.5
00PE01CB0001	12-JUN-84	0.002	0.080	0.20	0.05	1.6	2.2	2.70	2.70	0.05	6.1
00PE01CB0001	12-JUN-84	0.002	0.070	0.16	0.06	1.6	2.2	2.50	2.60	0.05	6.3
00PE01CB0001	12-JUN-84	0.002	0.080	0.13	0.04	1.9	2.0	2.70	2.70	0.05	6.4
00NB01AM0001	15-JUN-84	0.002	0.150	0.38	0.01	8.6	16.0	0.01	0.09	0.05	1.8

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PB EXTRACT.	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
00NB01AM0001	15-JUN-84	0.002	0.150	0.41	0.02	8.9	16.0	0.01	0.09	0.05	1.8
00NB01AM0001	15-JUN-84	0.002	0.140	0.39	0.02	8.3	16.0	0.01	0.11	0.05	1.8
00NS01ED0001	18-JUN-84	0.002	0.040	0.21	0.06	3.9	6.0	0.01	0.08	0.05	1.1
00NS01ED0001	18-JUN-84	0.002	0.040	0.21	0.06	4.0	5.8	0.02	0.08	0.05	1.1
00NS01ED0001	18-JUN-84	0.002	0.040	0.22	0.07	3.9	5.9	0.02	0.09	0.05	1.1
00NF02YM0001	19-JUN-84	0.002	0.080	0.12	0.01	10.0	11.0	0.04	0.09	0.05	3.4
00NF02YM0001	19-JUN-84	0.002	0.080	0.11	0.01	9.7	11.0	0.03	0.08	0.05	3.7
00NF02YM0001	19-JUN-84	0.002	0.100	0.10	0.01	9.4	11.0	0.03	0.09	0.05	3.8
00NF02ZK0001	20-JUN-84	0.002	0.020	0.11	0.01	6.5	13.0	0.01	0.06	0.05	0.4
00NF02ZK0001	20-JUN-84	0.002	0.020	0.12	0.01	7.0	12.0	0.01	0.07	0.05	0.4
00NF02ZK0001	20-JUN-84	0.002	0.040	0.13	0.01	7.0	13.0	0.01	0.07	0.05	0.4
00NS01EE0015	21-JUN-84	0.002	0.100	0.45	0.02	7.7	14.0	0.01	0.10	0.05	2.3
00NS01EE0015	21-JUN-84	0.002	0.120	0.43	0.02	7.8	13.0	0.04	0.13	0.05	2.3
00NS01EE0015	21-JUN-84	0.002	0.120	0.42	0.02	7.6	13.0	0.04	0.12	0.05	2.3
00NF02YC0001	28-JUN-84	0.002	0.090	0.07	0.01	4.9	9.4	0.14	0.19	0.05	1.1
00NF02YC0001	28-JUN-84	0.002	0.100	0.07	0.01	4.5	9.1	0.03	0.08	0.05	1.1
00NF02YC0001	28-JUN-84	0.002	0.090	0.06	0.01	4.7	8.9	0.01	0.07	0.05	1.1
00NB01BK0026	05-JUL-84	0.002	0.030	0.07	0.01	2.8	4.8	0.05	0.10	0.05	7.4
00NB01BK0026	05-JUL-84	0.002	0.040	0.07	0.01	4.0	6.2	0.01	0.21	0.05	7.4
00NB01BK0026	05-JUL-84	0.002	0.040	0.07	0.01	3.0	4.8	0.06	0.10	0.05	7.4
00NB01AN0001	06-JUL-84	0.002	0.260	0.74	0.06	15.0	23.0	0.01	0.12	0.05	4.8
00NB01AN0001	06-JUL-84	0.002	0.250	0.75	0.06	14.0	24.0	0.01	0.08	0.05	5.7
00NB01AN0001	06-JUL-84	0.002	0.250	0.75	0.07	14.0	23.0	0.01	0.07	0.05	5.0
00NF02ZB0001	06-JUL-84	0.002	0.070	0.08	0.01	4.9	9.0	0.01	0.16	0.05	0.1
00NF02ZB0001	06-JUL-84	0.002	0.070	0.07	0.01	5.1	9.1	0.10	0.16	0.05	0.1
00NF02ZB0001	06-JUL-84	0.002	0.080	0.08	0.01	4.9	9.0	0.10	0.16	0.05	0.1
00NS01DG0008	12-JUL-84	0.002	0.100	0.23	0.06	3.3	5.3	0.01	0.10	0.05	0.6
00NS01DG0008	12-JUL-84	0.002	0.100	0.21	0.06	2.8	5.7	0.02	0.11	0.05	0.6
00NS01DG0008	12-JUL-84	0.002	0.110	0.20	0.06	3.2	4.8	0.11	0.14	0.05	0.6
00NF02ZD0003	15-JUL-84	0.002	0.090	0.17	0.01	7.0	12.0	0.03	0.11	0.05	0.8
00NF02ZD0003	15-JUL-84	0.003	0.090	0.17	0.01	7.2	12.0	0.01	0.09	0.05	0.8
00NF02ZD0003	15-JUL-84	0.002	0.090	0.16	0.01	2.0	12.0	0.02	0.10	0.05	0.8
00NS01EE0001	16-JUL-84	0.002	0.100	0.16	0.02	6.4	12.0	0.01	0.07	0.05	0.5
00NS01EE0001	16-JUL-84	0.002	0.110	0.16	0.02	5.6	12.0	0.01	0.10	0.05	0.4
00NS01EE0001	16-JUL-84	0.002	0.120	0.17	0.02	5.4	13.0	0.01	0.09	0.05	0.5
00NS01DL0009	17-JUL-84	0.002	0.070	0.42	0.01	11.0	21.0	0.01	0.11	0.05	3.0
00NS01DL0009	17-JUL-84	0.002	0.060	0.44	0.01	11.0	21.0	0.01	0.10	0.05	3.0
00NS01DL0009	17-JUL-84	0.002	0.060	0.43	0.01	12.0	21.0	0.01	0.08	0.05	3.0
00NS01EA0001	17-JUL-84	0.002	0.300	0.37	0.01	16.0	23.0	0.02	0.08	0.05	2.7
00NS01EA0001	17-JUL-84	0.002	0.300	0.36	0.01	16.0	23.0	0.01	0.11	0.05	2.7

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PB EXTRACT.	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
00NS01EA0001	17-JUL-84	0.003	0.330	0.36	0.01	15.0	24.0	0.01	0.13	0.05	2.8
00NB01AP0002	18-JUL-84	0.002	0.033	0.20	0.03	2.4	6.6	0.20	0.28	0.05	7.1
00NB01AP0002	18-JUL-84	0.002	0.045	0.21	0.03	2.0	6.4	0.20	0.25	0.05	7.1
00NB01AP0002	18-JUL-84	0.002	0.030	0.20	0.03	2.3	10.0	0.07	0.14	0.05	7.1
01NB01AF0005	19-JUL-84	0.002	0.200	0.34	0.03	14.0	26.0	0.01	0.12	0.05	4.0
01NB01AF0005	19-JUL-84	0.002	0.190	0.33	0.03	14.0	23.0	0.09	0.19	0.05	4.0
01NB01AF0005	19-JUL-84	0.002	0.200	0.31	0.03	13.0	28.0	0.12	0.19	0.05	3.7
00NS01FJ0001	24-JUL-84	0.002	0.060	0.32	0.05	6.3	13.0	0.01	0.12	0.05	1.7
00NS01FJ0001	24-JUL-84	0.002	0.066	0.32	0.05	6.0	14.0	0.01	0.10	0.05	1.7
00NS01FJ0001	24-JUL-84	0.002	0.070	0.32	0.05	6.2	13.0	0.04	0.10	0.05	1.7
00PE01CD0003	25-JUL-84	0.002	0.010	0.15	0.03	2.8	6.2	0.08	0.12	0.05	2.8
00PE01CD0003	25-JUL-84	0.002	0.020	0.15	0.03	2.6	6.2	0.22	0.25	0.05	2.8
00PE01CD0003	25-JUL-84	0.002	0.020	0.14	0.03	2.6	6.2	0.01	0.06	0.05	2.7
00NF02YJ0001	02-AUG-84	0.002	0.010		0.01	2.6	4.0	0.13	0.17	0.05	2.5
00NF02YJ0001	02-AUG-84	0.002	0.010		0.01	2.5	4.3	0.13	0.18	0.05	2.4
00NF02YJ0001	02-AUG-84	0.002	0.018		0.01	2.8	5.1	0.11	0.14	0.05	2.4
00NS01DA0001	08-AUG-84	0.002	0.170	0.53	0.04	11.0	19.0	0.02	0.14	0.05	0.6
00NS01DA0001	08-AUG-84	0.002	0.150	0.53	0.02	11.0	19.0	0.05	0.15	0.05	0.6
00NS01DA0001	08-AUG-84	0.002	0.170	0.54	0.04	11.0	19.0	0.05	0.16	0.05	0.6
00NS01EF0002	09-AUG-84	0.002	0.120	0.21	0.03	8.1	21.5	0.01	0.10	0.05	1.0
00NS01EF0002	09-AUG-84	0.002	0.100	0.22	0.04	8.2	20.0	0.01	0.13	0.05	1.0
00NS01EF0002	09-AUG-84	0.002	0.110	0.23	0.03	7.9		0.01	0.12	0.05	1.0
00NF02ZG0016	15-AUG-84	0.002	0.087	0.30	0.05	6.6	12.0	0.01	0.10	0.05	0.8
00NF02ZG0016	15-AUG-84	0.002	0.087	0.27	0.05	6.6	12.0	0.01	0.10	0.05	0.8
00NF02ZG0016	15-AUG-84	0.002	0.087	0.30	0.05	6.3	12.0	0.01	0.10	0.05	0.8
00NB01AQ0001	16-AUG-84	0.002	0.100	0.25	0.01	5.2	10.0	0.02	0.11	0.20	1.6
00NB01AQ0001	16-AUG-84	0.002	0.084	0.25	0.01	4.5	12.0	0.02	0.10	0.20	1.6
00NB01AQ0001	16-AUG-84	0.002	0.087	0.26	0.02	4.4	11.0	0.02	0.10	0.20	1.6
00NS01EC0005	10-SEP-84	0.002	0.260	0.22	0.01	14.0	21.0	0.01	0.15	0.05	0.8
00NS01EC0005	10-SEP-84	0.002	0.250	0.23	0.01	14.0	25.0	0.01	0.15	0.05	0.9
00NS01EC0005	10-SEP-84	0.002	0.250	0.23	0.01	14.0	21.0	0.01	0.17	0.05	0.8
00NS01DN0001	12-SEP-84	0.002	0.042	0.15	0.03	3.0	6.9	0.01	0.10	0.06	6.7
00NS01DN0001	12-SEP-84	0.002	0.042	0.15	0.03	3.7	6.9	0.02	0.11	0.06	6.8
00NS01DN0001	12-SEP-84	0.002	0.040	0.14	0.03	3.7	6.6	0.03	0.12	0.06	6.8
00NS01DE0001	13-SEP-84	0.002	0.120	0.41	0.07	4.0	8.2	0.01	0.13	0.05	1.8
00NS01DE0001	13-SEP-84	0.002	0.130	0.43	0.07	3.9	7.0	0.03	0.10	0.05	1.7
00NS01DE0001	13-SEP-84	0.002	0.120	0.41	0.06	4.0	7.0	0.03	0.10	0.05	1.7
00NB01AJ0029	17-SEP-84	0.002	0.010		0.01	3.8	7.2	0.08	0.14	0.05	2.6
00NB01AJ0029	17-SEP-84	0.002	0.010		0.01	3.8	8.0	0.08	0.13	0.05	2.6
00NB01AJ0029	17-SEP-84	0.002	0.010		0.01	3.5	8.0	0.01	0.10	0.05	2.5

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PB EXTRACT.	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
00NB01BU0031	17-SEP-84	0.002	0.093	0.33	0.03	9.4	21.0	0.08	0.21	0.07	7.1
00NB01BU0031	17-SEP-84	0.002	0.093	0.30	0.03	9.1	20.0	0.07	0.22	0.07	7.0
00NB01BU0031	17-SEP-84	0.002	0.097	0.30	0.03	9.1	23.0	0.07	0.19	0.07	7.2
00PE01CA0001	17-SEP-84	0.002	0.021	0.23	0.03	4.4	7.2	1.25	1.30	0.05	6.3
00PE01CA0001	17-SEP-84	0.002	0.015	0.20	0.02	4.7	11.0	1.40	1.30	0.05	6.3
00PE01CA0001	17-SEP-84	0.002	0.020	0.24	0.03	4.6	12.0	1.25	1.20	0.05	6.3
00NS01FB0001	19-SEP-84	0.002	0.072	0.05	0.04	3.6	4.8	0.40	0.48	0.05	7.6
00NS01FB0001	19-SEP-84	0.002	0.070		0.01	3.8	5.2	0.38	0.45	0.05	7.5
00NS01FB0001	19-SEP-84	0.002	0.070		0.01	3.5	5.2	0.42	0.49	0.05	7.4
00NS01EN0002	20-SEP-84	0.002	0.190	0.50	0.06	11.0	20.0	0.01	0.13	0.05	2.2
00NS01EN0002	20-SEP-84	0.002	0.190	0.47	0.06	11.0	16.0	0.01	0.13	0.05	2.1
00NS01EN0002	20-SEP-84	0.002	0.190	0.46	0.06	11.0	16.0	0.01	0.13	0.05	2.1
00NS01ER0001	09-OCT-84	0.002	0.068	0.15	0.02	7.5	14.0	0.04	0.12	0.05	1.9
00NS01ER0001	09-OCT-84	0.002	0.060	0.15	0.01	7.5	15.0	0.01	0.11	0.05	1.9
00NS01ER0001	09-OCT-84	0.002	0.060	0.15	0.01	7.3	15.0	0.02	0.13	0.05	1.9
00NS01ED0030	10-OCT-84	0.002	0.130	0.76	0.06	10.0	16.0	0.01	0.12	0.05	5.1
00NS01ED0030	10-OCT-84	0.002	0.110	0.76	0.06	10.0	16.0	0.01	0.14	0.05	5.1
00NS01ED0030	10-OCT-84	0.002	0.110	0.75	0.06	10.0	16.0	0.01	0.13	0.05	5.1
00NF02ZC0001	11-OCT-84	0.002	0.120	0.11	0.01	5.4	5.0	0.01	0.10	0.05	2.7
00NF02ZC0001	11-OCT-84	0.002	0.110	0.10	0.01	5.7	4.8	0.01	0.10	0.05	2.7
00NF02ZC0001	11-OCT-84	0.002	0.130	0.09	0.01	5.4	7.9	0.02	0.10	0.05	2.8
00NF02ZK0001	11-OCT-84	0.002	0.100	0.35	0.02	9.6	18.0	0.01	0.10	0.05	2.3
00NF02ZK0001	11-OCT-84	0.002	0.110	0.53	0.02	10.0	18.0	0.01	0.10	0.05	2.3
00NF02ZK0001	11-OCT-84	0.002	0.120	0.38	0.02	9.6	18.0	0.01	0.11	0.05	2.3
00PE01CB0001	11-OCT-84	0.002	0.037	0.14	0.02	1.2	2.3	2.50	2.50	0.05	6.4
00PE01CB0001	11-OCT-84	0.002	0.030	0.10	0.01	1.0	2.2	2.50	2.40	0.05	6.4
00PE01CB0001	11-OCT-84	0.002	0.037	0.13	0.02	1.0	2.2	2.50	2.60	0.05	6.4
00NS01DG0008	06-NOV-84	0.002	0.096	0.20	0.08	3.2	4.7	0.41	0.46	0.05	2.8
00NS01DG0008	06-NOV-84	0.002	0.090	0.19	0.08	2.8	5.9	0.41	0.45	0.05	2.8
00NS01DG0008	06-NOV-84	0.002	0.090	0.20	0.08	3.0	5.9	0.43	0.46	0.05	2.8
00NS01DL0009	07-NOV-84	0.002	0.060	0.18	0.01	5.4	9.4	0.01	0.11	0.05	4.2
00NS01DL0009	07-NOV-84	0.002	0.060	0.18	0.01	5.2	9.1	0.01	0.11	0.05	4.2
00NS01DL0009	07-NOV-84	0.002	0.060	0.19	0.01	5.4	8.4	0.01	0.12	0.05	4.2
00NB01BJ0056	13-NOV-84	0.002	0.058	0.09	0.01	2.6	15.0	0.28	0.32	0.05	6.2
00NB01BJ0056	13-NOV-84	0.002	0.055	0.09	0.01	2.7	4.9	0.28	0.33	0.05	6.4
00NB01BJ0056	13-NOV-84	0.002	0.063	0.09	0.01	2.7	15.0	0.28	0.33	0.05	6.2
00PE01CD0003	13-NOV-84	0.002	0.012	0.08	0.02	2.9	6.1	0.31	0.32	0.05	2.7
00PE01CD0003	13-NOV-84	0.002	0.010	0.07	0.02	2.9	5.8	0.30	0.31	0.05	2.8
00PE01CD0003	13-NOV-84	0.002	0.010	0.08	0.02	2.9	5.8	0.32	0.37	0.05	2.5

TABLE 5. RESULTS OF TRIPLICATE SAMPLING OF SELECTED STATIONS INCLUDED IN THE LRTAP OVERVIEW RIVERS PROGRAM

	SDATE	PB EXTRACT.	AL EXTRACT.	FE EXTRACT.	MN EXTRACT.	DOC	HUMIC ACID	NO2-NO3	TOT. N	F DISS.	SIO2
00NB01AP0002	20-NOV-84	0.002	0.050	0.20	0.05	3.1	5.9	0.41	0.42	0.05	6.5
00NB01AP0002	20-NOV-84	0.002	0.042	0.20	0.05	3.0	5.9	0.43	0.55	0.05	6.5
00NB01AP0002	20-NOV-84	0.002	0.042	0.20	0.05	2.6	12.0	0.50	0.52	0.05	6.4
00NS01FJ0001	20-NOV-84	0.002	0.130	0.30	0.04						
00NS01FJ0001	20-NOV-84	0.002	0.130	0.30	0.04						
00NS01FJ0001	20-NOV-84	0.002	0.130	0.30	0.04						
01NB01AF0005	20-NOV-84	0.002	0.130	0.23	0.02	12.0	23.0	0.29	0.36	0.05	5.1
01NB01AF0005	20-NOV-84	0.002	0.130	0.22	0.02	12.0	23.0	0.25	0.35	0.05	5.1
01NB01AF0005	20-NOV-84	0.002	0.130	0.21	0.02						
00NF02ZC0001	27-NOV-84	0.002	0.072	0.06	0.02	3.0	5.3	0.05	0.11	0.05	4.0
00NF02ZC0001	27-NOV-84	0.002	0.072	0.05	0.02	3.0	5.3	0.05	0.10	0.05	4.1
00NF02ZC0001	27-NOV-84	0.002	0.072	0.05	0.02	3.0	5.3	0.05	0.10	0.05	4.1